PHILIPS 25PT910B

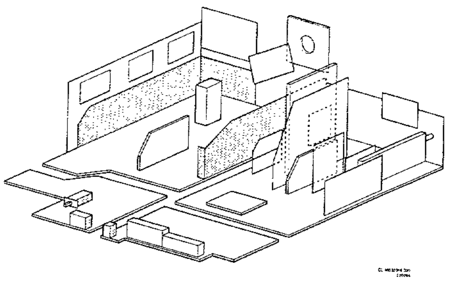
MODEL

SERVICE MANUAL

Colour television

Chassis

Service
Service
Service



FL2.24
FL2.26
FL4.27

AA

Service Manual

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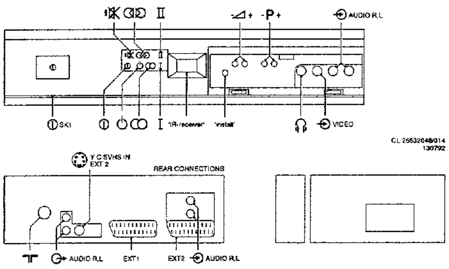
1. Technical data

Mains voltage : 220 - 240 V (± 10%)
: 50 Hz - 60 Hz (± 5%)
Aerial input impedance : 75 Ω - koaxial
Minimum aerial voltage : 30 µV (VHF), 40 µV (UHF)
Maximum aerial voltage VHF/S/UHF : 180 mV

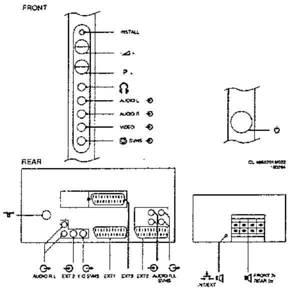
Programmes : 0 - 99
VCR programmes : 0, 50 - 99

2. Connection facilities and Chassis overview

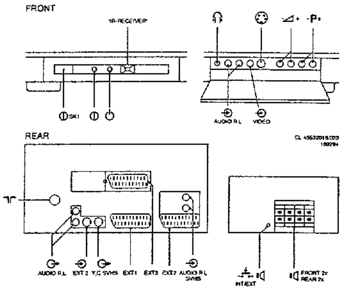
FL1


AUDIO R,L
II
SK1
I
IR-receiver
install
VIDEO
CL 26532048/014
130792
Y C SVHS IN
EXT 2
REAR CONNECTIONS
AUDIO R,L
EXT1
EXT2
AUDIO R,L

FL2

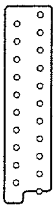

FRONT
INSTALL
P
AUDIO L
AUDIO R
VIDEO
SVHS
REAR
AUDIO R,L
EXT 2
Y/C SVHS
EXT1
EXT3
EXT2
AUDIO R,L
SVHS
INT/EXT
FRONT 2x
REAR 2x

FL4


FRONT
IR-RECEIVER
P
SK1
AUDIO R,L
VIDEO
REAR
CL 45632018/023
160294
AUDIO R,L
EXT 2
Y,C SVHS
EXT1
EXT3
EXT2
AUDIO R,L
SVHS
INT/EXT
FRONT 2x
REAR 2x

Specification of the connectors

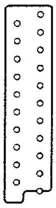
EXT1 (AUX): RGB+CVBS



1 -Audio ⊙→ R(0,5VRMS ≤ 1kΩ)
2 -Audio →⊙ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ⊙→ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 -Blue ⊥
6 -Audio →⊙ L(0,2-2VRMS ≥ 10kΩ)
7 -Blue (0,7V_{pp}/75Ω)
8 -CVBS-status →⊙ 0-2V: INT
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3

9 -Green ⊥
10 --
11 -Green (0,7V_{pp}/75Ω)
12 --
13 -Red ⊥
14 -RGB-status
15 -Red (0,7V_{pp}/75Ω)
16 -RGB-status (0-0,4V: INT)
(1-3V: EXT/75Ω)
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊙→ (1V_{pp}/75Ω)
20 -CVBS →⊙ (1V_{pp}/75Ω)
21 -Earthscreen

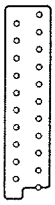
EXT2 (VCR): Y/C+CVBS



1 -Audio ⊙→ R(0,5VRMS ≤ 1kΩ)
2 -Audio →⊙ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ⊙→ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 --
6 -Audio →⊙ L(0,2-2VRMS ≥ 10kΩ)
7 --
8 -CVBS-status →⊙ 0-2V: int
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
→⊙ 4,5: EXT 16:9

9 --
10 --
11 --
12 --
13 -CHROMA ⊥
14 --
15 -CHROMA →⊙ (1V_{pp}/75Ω)
16 --
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊙→ (1V_{pp}/75Ω)
20 -CVBS/Y →⊙ (1V_{pp}/75Ω)
21 -Earthscreen

EXT3: CVBS



1 --
2 -Audio →⊙ R(0,2-2VRMS ≥ 10k
3 --
4 -Audio ⊥
5 --
6 -Audio →⊙ L(0,2-2VRMS ≥ 10k
7 --
8 --
9 --
10 --
11 --
12 --
13 --
14 --
15 --
16 --
17 --
18 -CVBS ⊥
19 --
20 -CVBS →⊙ (1V_{pp}/75Ω)
21 -Earthscreen

EXT2 (SVHS) (rear)

SVHS
1 - ⊥
2 - ⊥
3 - Y →⊙ (1V_{pp}; 75Ω)
4 - C →⊙ (0,3V_{pp}; 75Ω)

◎ CINCH Audio →⊙ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio →⊙ R(0,5VRMS; ≥ 10kΩ)

Audio out (rear)

◎ CINCH Audio ⊙→ L(0,5VRMS; ≤ 1kΩ)
◎ CINCH Audio ⊙→ R(0,5VRMS; ≤ 1kΩ)

EXT3 (front)

◎ CINCH Video →⊙ 300mV_{pp}/75Ω
◎ CINCH Audio →⊙ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio →⊙ R(0,5VRMS; ≥ 10kΩ)

◉ 3.5mm 32-2000Ω ≥ 10mW

Erratum

GB

In this reprinted service manual the following diagrams have been replaced:

Diagram		Page
Block diagram		4
Source Select	(Diagram C)	7
Synchronisation FLx.26/.27	(Diagram B)	8
Video processing	(Diagram D)	9
Synchronisation FLx.24	(Diagram B)	10
Sound Processing	(Diagram F)	11
Power supply FLx.26/.27	(Diagram A)	12
SCAVEM	(Diagram Z)	18
PiP	(Diagram J)	21
LFR box	(Diagram M)	22

The following Service Informations are included:

FL 94.03
FL 94.05

Corrections to Chapter 7

Paragraph 3.2 and 3.4

Actual	Must be
(fig. 7.9)	(fig. 7.4)
7.64μs	6.4μs
Figure 7.4	
744μs ± 175ns	6.4μs ± 175ns

Corrections to Chapter 8

Paragraph 5

In some versions it is not possible to re-route the signal path after removing the PiP module because of the use of different connectors.

Paragraph 8.4.1 and 8.4.2

Error message 99 (software protection) is not indicated by the LED's any more.
In case of hardware protection the set switches to stand-by and back on again, once in every few seconds.
Just before switching to stand-by, in case of protection, both red and green LED's light up.

Erratum

Ⓓ

In diese Nachdruck der Service Manual sind die folgende Schaltbilder geändert worden.

Schaltbild		**Seite**
Blockschaltbild		4
Quellenwahl	(Schaltbild C)	7
Synchronisierung FLx.26/.27	(Schaltbild B)	8
Video Verarbeitung	(Schaltbild D)	9
Synchronisierung FLx.24	(Schaltbild B)	10
Ton Verarbeitung	(Schaltbild F)	11
Stromversorgung FLx.26/.27	(Schaltbild A)	12
SCAVEM	(Schaltbild Z)	18
Bild im Bild	(Schaltbild J)	21
LFR box	(Schaltbild M)	22

Die folgenden Service Informationen sind Beigeliefert:

FL	94.03
FL	94.05

Korrekturen zur Kapitel 7

Paragraph 3.2 und 3.4

Jetzt	Muß sein
(Abb. 7.9)	(Abb. 7.4)
7.64µs	6.4µs
Abbildung 7.4	
744µs ± 175ns	6.4µs ± 175ns

Korrekturen zur Kapitel 8

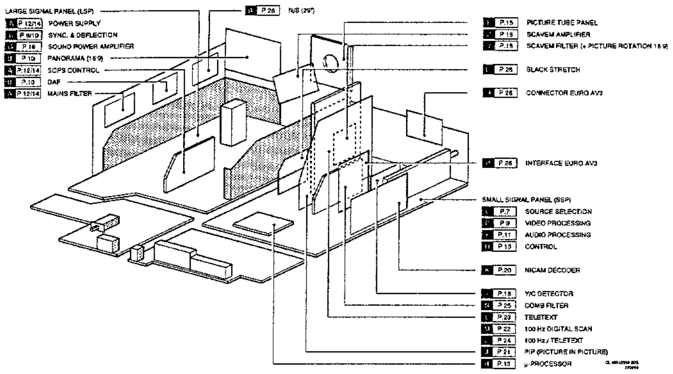
Paragraph 5

In manche Versionen ist es nicht möglich um das Signal durch zu fuhren, wenn das Bild im Bild Modul entfernt ist, weil unterschiedliche Stecker gebraucht worden sind.

Paragraph 8.4.1 und 8.4.2

Fehlermeldung 99 (Software-Schutz) wird nicht mehr angezeigt von der LED's.
Wenn die Hardware-Schutz aktiv ist, schaltet das Gerät zu Stand-by und wieder ein, mit ein Frequenz von einmal in einige Sekunden.
Kurz bevor das Gerät zu Stand-by geschaltet wird, leuchten beide LED's gleichzeitig auf.

Chassis overview


LARGE SIGNAL PANEL (LSP)
P 12/14 POWER SUPPLY
P 8/10 SYNC. & DEFLECTION
P 16 SOUND POWER AMPLIFIER
P 10 PANORAMA (16:9)
P.12/14 SCPS CONTROL
P.10 DAF
P 12/14 MAINS FILTER
P 26 N/S (29")
P.15 PICTURE TUBE PANEL
P 19 SCAVEM AMPLIFIER
P.18 SCAVEM FILTER (+ PICTURE ROTATION 16:9)
P 26 BLACK STRETCH
P 26 CONNECTOR EURO AV3
P 26 INTERFACE EURO AV3
SMALL SIGNAL PANEL (SSP)
P.7 SOURCE SELECTION
P 9 VIDEO PROCESSING
P.11 AUDIO PROCESSING
P 13 CONTROL
P.20 NICAM DECODER
P.18 Y/C DETECTOR
P 25 COMB FILTER
P.23 TELETEXT
P 22 100 Hz DIGITAL SCAN
P 24 100 Hz / TELETEXT
P 21 PIP (PICTURE IN PICTURE)
P.13 µ-PROCESSOR

3. Warnings and Notes

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. **ESD** ⚠

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier is connected to the -16/-11 volts.**

11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.

12. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⏚), or hot earth (⊥) as this is called.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

3. Where necessary, the oscillograms and direct voltages are measured with (┐┌) and without aerial signal (✕) Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏼). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

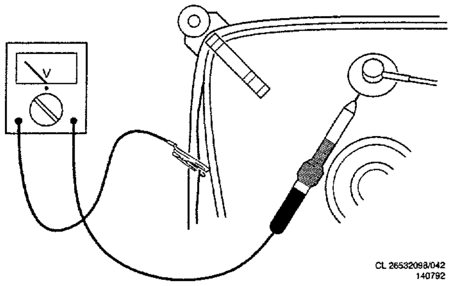

V
CL 26532098/042
140792

Fig. 3.1

4. Mechanical instructions

It is extremely important that following disassembly all cables are replaced in their original positions in order that safety and sound and picture quality may be guaranteed.

1. Model overview (fig. 1)

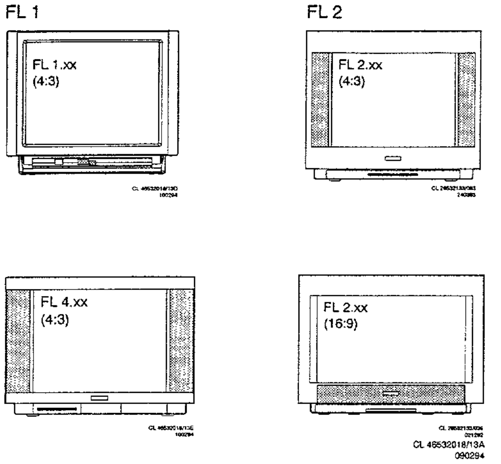


Fig. 4.1

2. Removing the rear panel (fig. 2 + 3)

Before the rear panel is removed the connection to the subwoofer should first be disconnected:

FL1: Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)

FL2: Remove the three screws A with which the grille is fixed. Tap the grille downwards as indicated by arrow 1, so that the grille becomes loose. Remove the grille from the rear panel by pulling it in the direction indicated by arrow 2.

Disconnect the cable from the subwoofer as indicated by arrow 3. Remove screws B and C, and also screws D if present or lugs E for FL4.

Remove the rear panel from the set.

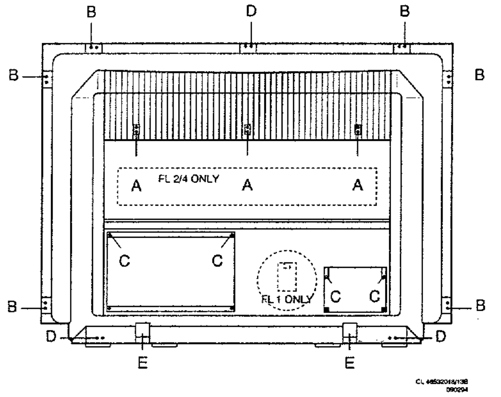


Fig. 4.2

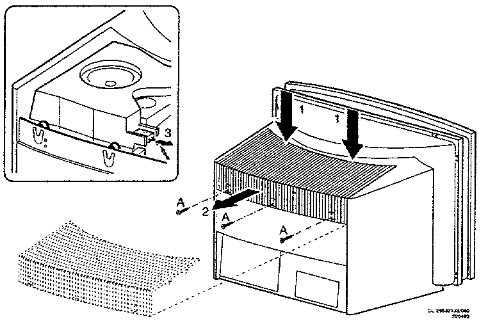


Fig. 4.3

3. Service positions FL1

FL1 can be placed in two service positions. (Fig. 4)
Remove the rear panel. Remove the screw behind the flap on the front side of the set.

Service position 1:

If present, press down the lugs with which the chassis is secured and pull both panels simultaneously to the rear, removing any hindering cables from the cable ties if necessary. Place the panels vertically behind the set as illustrated in figure 4a.

Service position 2:

Disconnect connectors L01, L02 and L03 that connect the small (SSP) and large signal panel (LSP) together. Pull the panel concerned backwards out of the set. Using extension cable set 4822 320 20209 (fig.5) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4b.

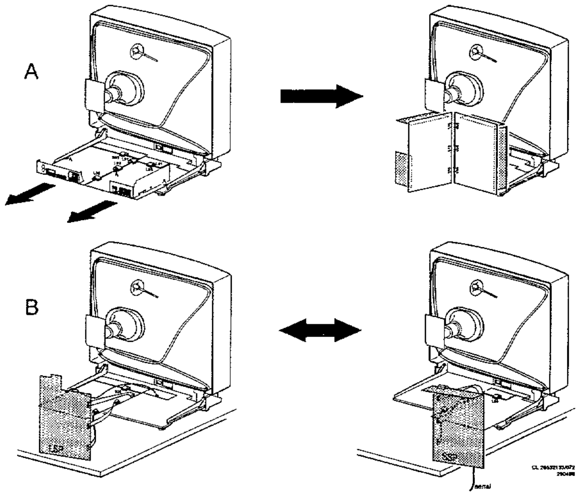


Fig. 4.4

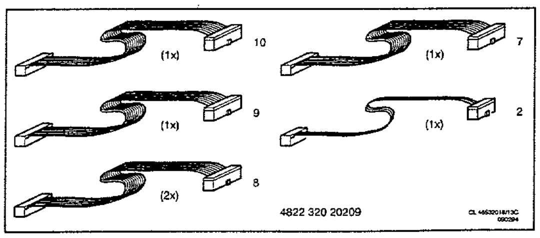


Fig. 4.5

4. Service positions FL2 (fig. 6)

FL2 can be placed in two service positions. (fig.6)
Remove the rear panel.

Service position 1:

Disconnect connectors E47 and E48. These connectors are located on the side of the set and connect the chassis with the audio, video and headphone connections (FRONT).
Lift the chassis frame at the rear and remove it from the cabinet, removing any hindering cables from the cable ties if necessary. Place the frame one position to the rear, taking care to ensure that the chassis frame lugs are located into the correct recesses.

Service position 2:

Place the chassis in service position 1.
Click the infra-red receiver (IR) out of the retainer located under the picture tube.
Remove the cables to the panel with buttons for

local operation from their ties and then click the operating panel out of its holder.
Disconnect the cable to the degaussing coil on the picture tube from the mains filter panel.
Remove the cables from and to the mains filter from their cable ties. Click the two service legs loose and place them vertically in the holes as indicated in the diagram. Tilt the entire chassis frame and place the entire unit on both service legs so that the solder side is accessible.

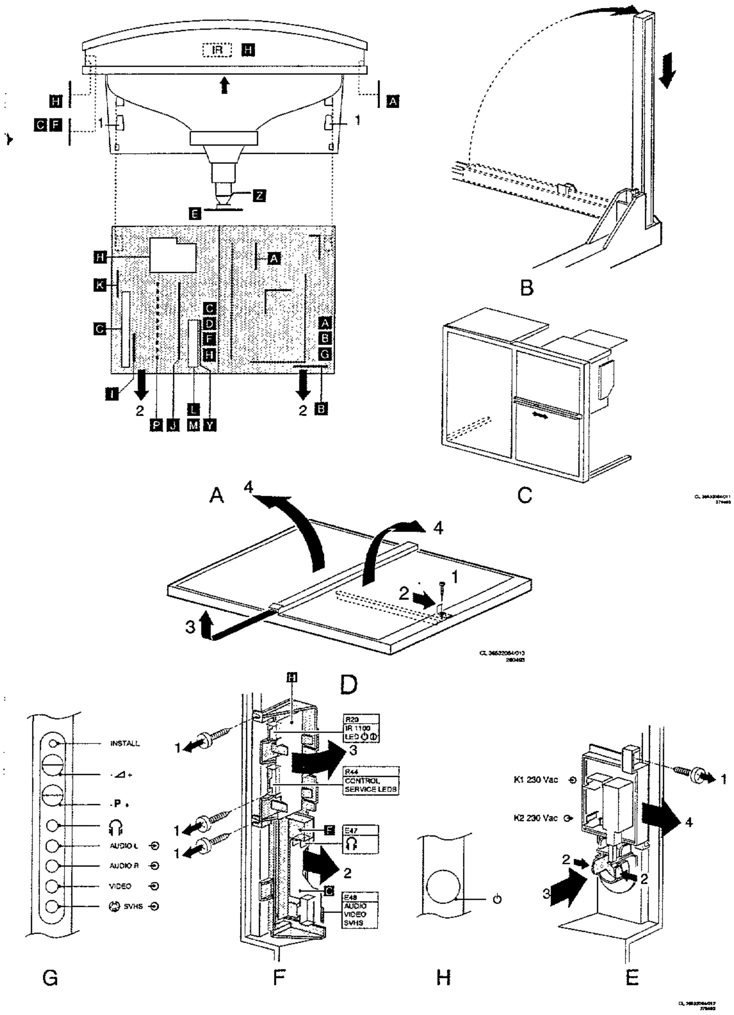


Fig. 4.6

5. Service position FL4 (fig. 7)

An FL4 model can be put into service position 1 in the same manner as an FL2 model.
Service position 2 is accomplished by tilting the whole frame once the cabling has been disconnected (the cable to the front connectors (E47, E48) may be disconnected). A stud on the frame and a hook on the case ensure a stable service position.

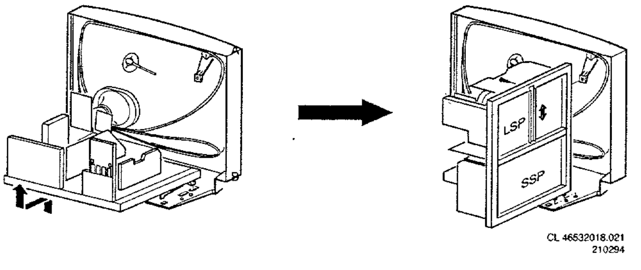


Fig. 4.7

6. Removing the mask from FL2 (fig. 8)

Remove the rear panel. Remove the chassis frame with the chassis from the cabinet.
Remove screws E as indicated in the diagram. Loosen the snap connection under the picture tube. Remove the masker in the manner illustrated in the diagram.

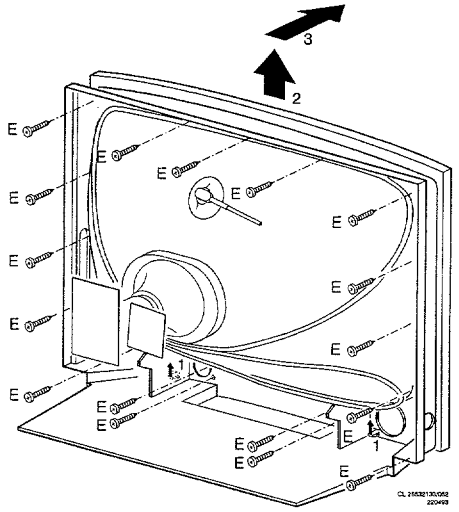


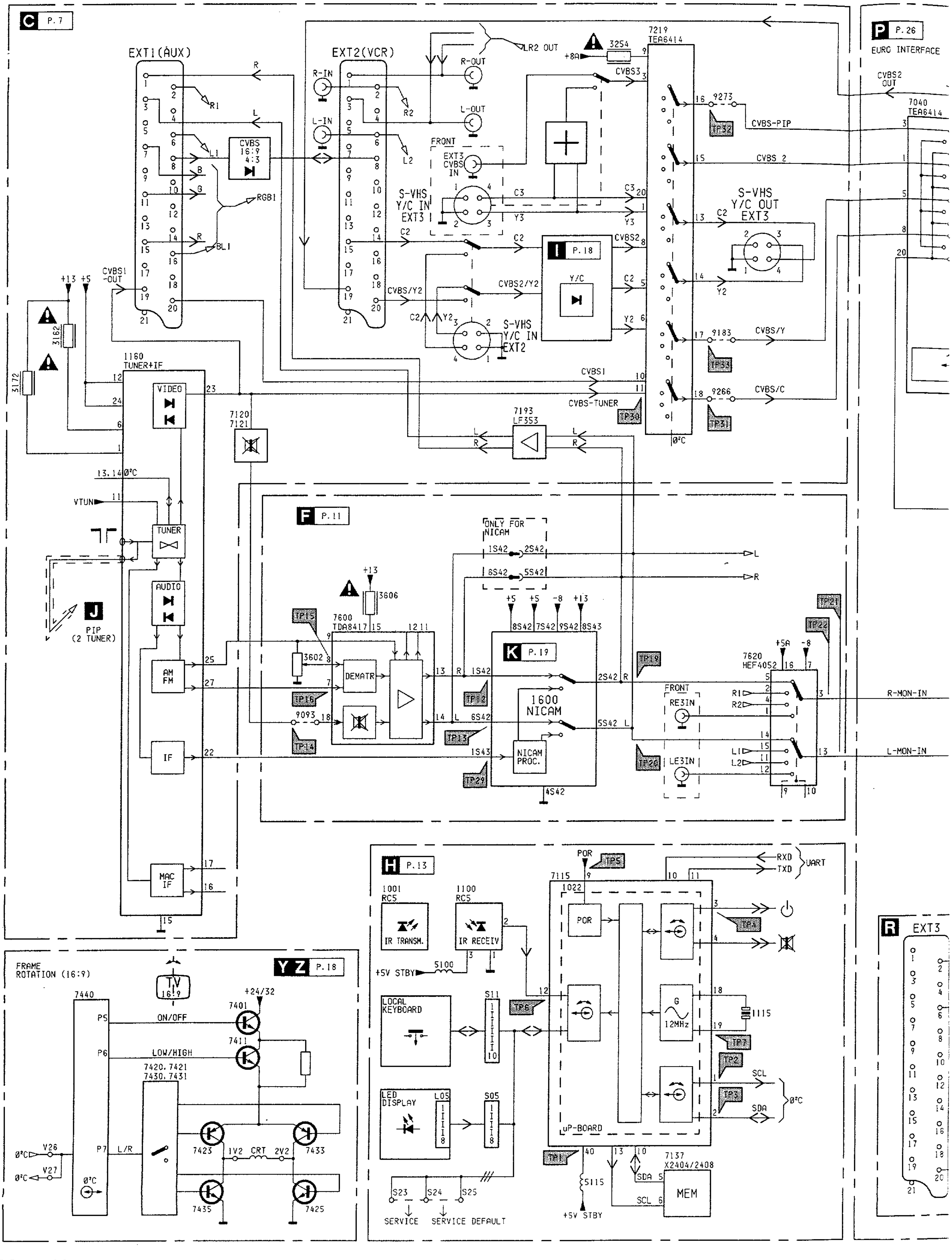
Fig. 4.8

7. Replacing the picture tube.

Remove the rear panel.
Discharge the picture tube in the manner described in chapter 3. Remove the chassis, or the chassis with the chassis frame from the cabinet. Disconnect all cabling to the picture tube. Tilt the set so that the front of the picture tube is pointing downwards, taking care that the picture tube comes to rest on a soft and clean surface. Loosen the four bolt on the picture tube corners and drop the cabinet gently down onto the work surface.
The picture tube can now be removed from the cabinet.

In FL2 special nylon picture tube tubular rivets have been applied. In order to guarantee optimum strength these should not be re-used. Take care to fit correctly when replacing. Tighten the picture tube screws one-by-one until a torque of approximately 1kgm (10Nm) is achieved. The picture tube tubular rivets are obtainable under code numbers:
For 28" picture tubes and smaller: 4822 532 12243 (≤ 28")
For 29" picture tubes and larger: 4822 404 31294 (≥ 29")
Four tubular rivets are required per picture tube.

Blockdiagram / Blockschaltbild /



C P.7
EXT1(AUX)
EXT2(VCR)
R
L
R1
L1
CVBS 16:9 4:3
B
G
RGB1
BL1
R2
L2
R-IN
L-IN
R-OUT
L-OUT
LR2 OUT
FRONT
EXT3 CVBS IN
S-VHS Y/C IN EXT3
C3
Y3
C2
CVBS2
CVBS/Y2
CVBS2/Y2
I P.18
Y/C
Y2
S-VHS Y/C IN EXT2
3254
+8A
7219 TEA6414
CVBS3
9273
CVBS-PIP
CVBS 2
S-VHS Y/C OUT EXT3
TP32
TP33
TP31
TP30
9183
CVBS/Y
9266
CVBS/C
CVBS1
CVBS-TUNER
0°C
P P.26
EURO INTERFACE
CVBS2 OUT
7040 TEA6414
+13
+5
CVBS1 -OUT
3162
3172
1160 TUNER+IF
VIDEO
7120 7121
7193 LF353
13,14 0°C
VTUN
TUNER
AUDIO
J
PIP (2 TUNER)
AM FM
IF
MAC IF
F P.11
ONLY FOR NICAM
1S42
2S42
6S42
5S42
+13
3606
TP15
7600 TDA8417
3602
DEMATR
TP16
9093
TP14
TP12
TP13
TP27
K P.19
+5 +5 -8 +13
8S42 7S42 9S42 8S43
1600 NICAM
NICAM PROC.
1S43
4S42
TP19
TP20
FRONT
RE3IN
LE3IN
TP21
TP22
+5A -8
7620 HEF4052
R-MON-IN
L-MON-IN
H P.13
1001 RC5 IR TRANSM.
1100 RC5 IR RECEIV
+5V STBY
5100
LOCAL KEYBOARD
S11
TP6
LED DISPLAY
L05
S05
S23 S24 S25
SERVICE
SERVICE DEFAULT
POR
TP5
7115
1022
RXD
TXD
UART
TP4
G 12MHz
1115
TP7
TP2
TP3
SCL
SDA
0°C
uP-BOARD
TP1
5115
+5V STBY
7137 X2404/2408
MEM
YZ P.18
FRAME ROTATION (16:9)
TV 16:9
7440
P5
P6
P7
ON/OFF
LOW/HIGH
L/R
+24/32
7401
7411
7420,7421 7430,7431
7423
7433
1V2 CRT 2V2
7435
7425
V26
V27
0°C
R EXT3

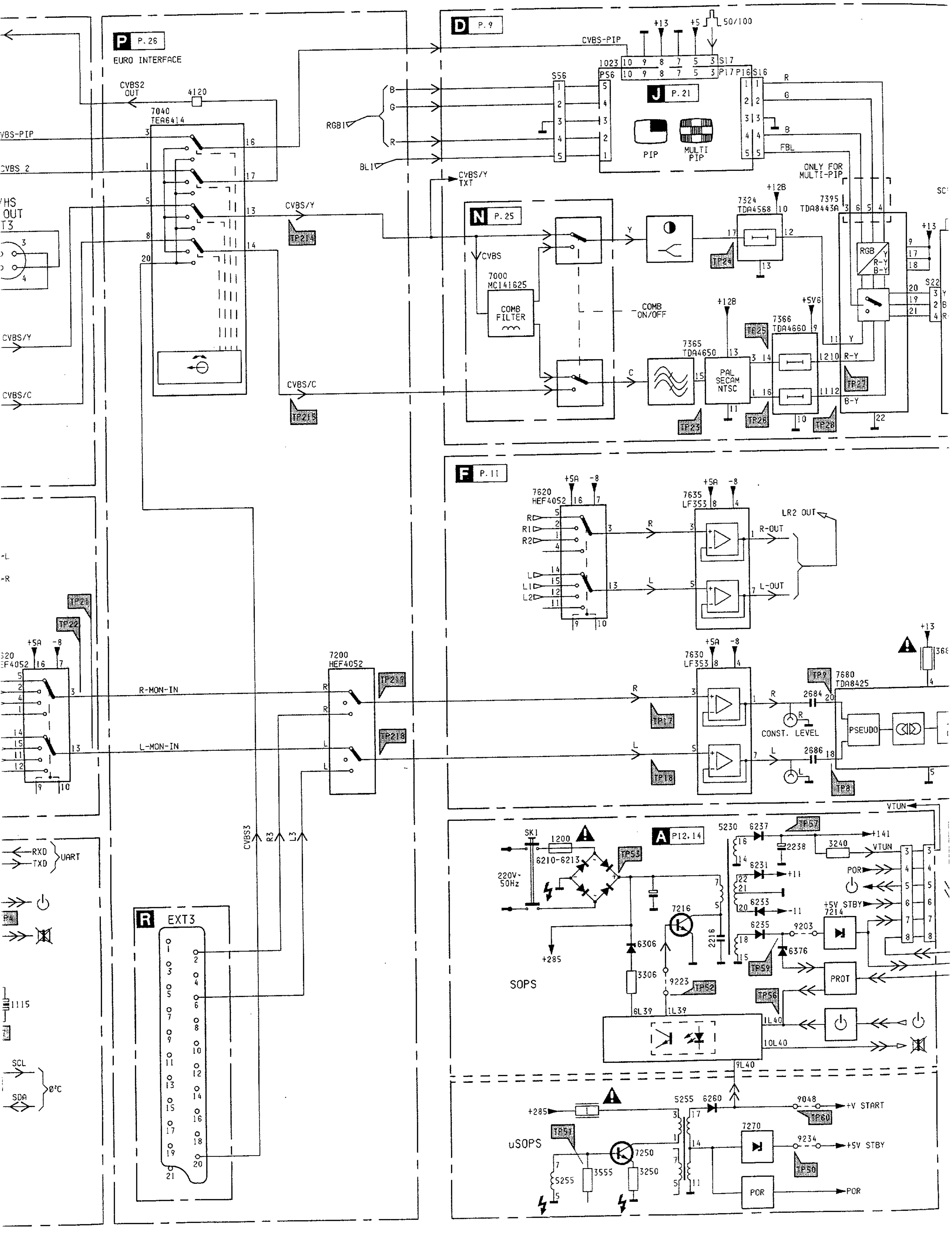
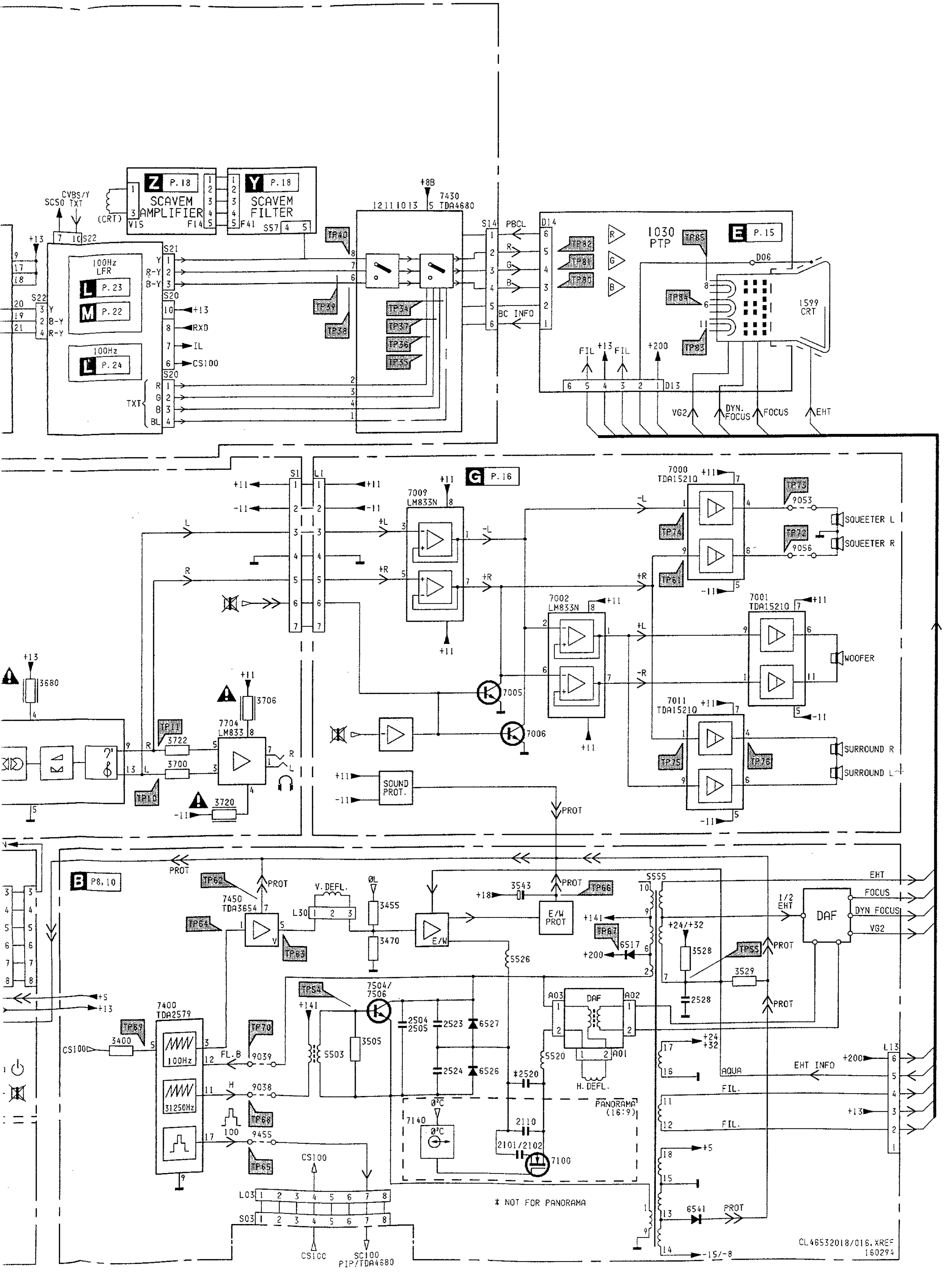
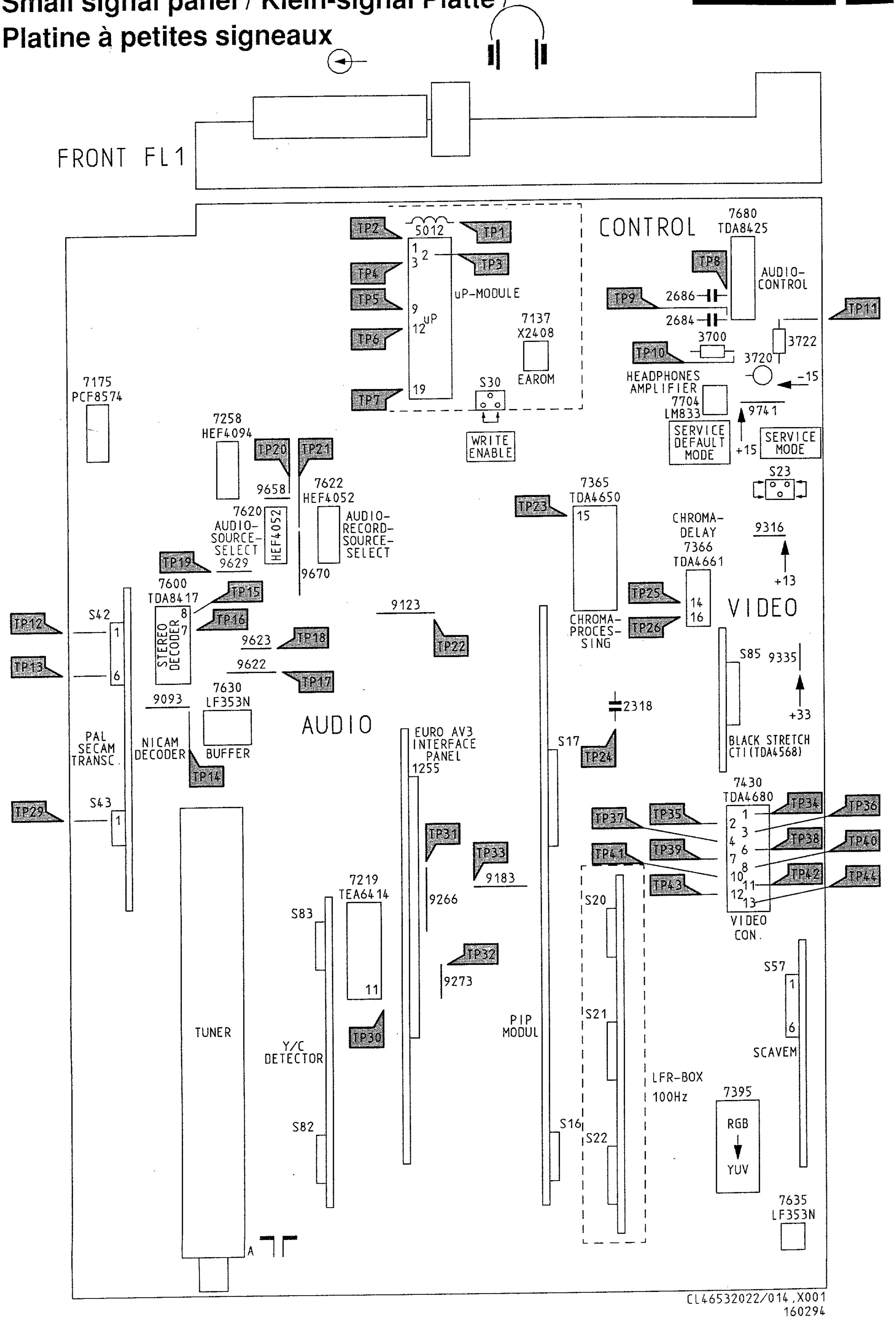

P P.26
EURO INTERFACE
CVBS2 OUT
4120
7040 TEA6414
VBS-PIP
CVBS 2
/HS OUT T3
CVBS/Y
CVBS/C
TP214
TP215
D P.9
CVBS-PIP
+13
+5
50/100
1023
P56
S17
P17 P16 S16
S56
J P.21
PIP
MULTI PIP
RGB1
BL1
R
G
B
FBL
ONLY FOR MULTI-PIP
CVBS/Y TXT
N P.25
CVBS
7000 MC141625
COMB FILTER
COMB ON/OFF
Y
C
+12B
7324 TDA4568
7395 TDA8443A
RGB
R-Y
B-Y
7365 TDA4650
PAL SECAM NTSC
+5V6
7366 TDA4660
TP24
TP25
TP23
TP26
TP27
TP28
S22
F P.11
+5A
-8
7620 HEF4052
R1
R2
L1
L2
7635 LF353
R-OUT
L-OUT
LR2 OUT
7630 LF353
7680 TDA8425
2684
2686
CONST. LEVEL
PSEUDO
TP9
TP8
TP17
TP18
TP21
TP22
7200 HEF4052
R-MON-IN
L-MON-IN
TP219
TP218
CVBS3
R3
L3
EF4052
R EXT3
RXD
TXD
UART
SCL
SDA
I²C
1115
VTUN
A P12.14
SK1
1200
6210-6213
220V~ 50Hz
TP55
+285
5230
6237
+141
2238
3240
6231
+11
6233
-11
POR
+5V STBY
7214
7216
2216
6235
9203
6376
6306
3306
9223
TP52
TP59
TP57
TP56
PROT
SOPS
6L39
1L39
1L40
10L40
9L40
5255
6260
9048
+V START
TP60
7270
9234
+5V STBY
TP50
uSOPS
TP51
7250
3555
3250
POR

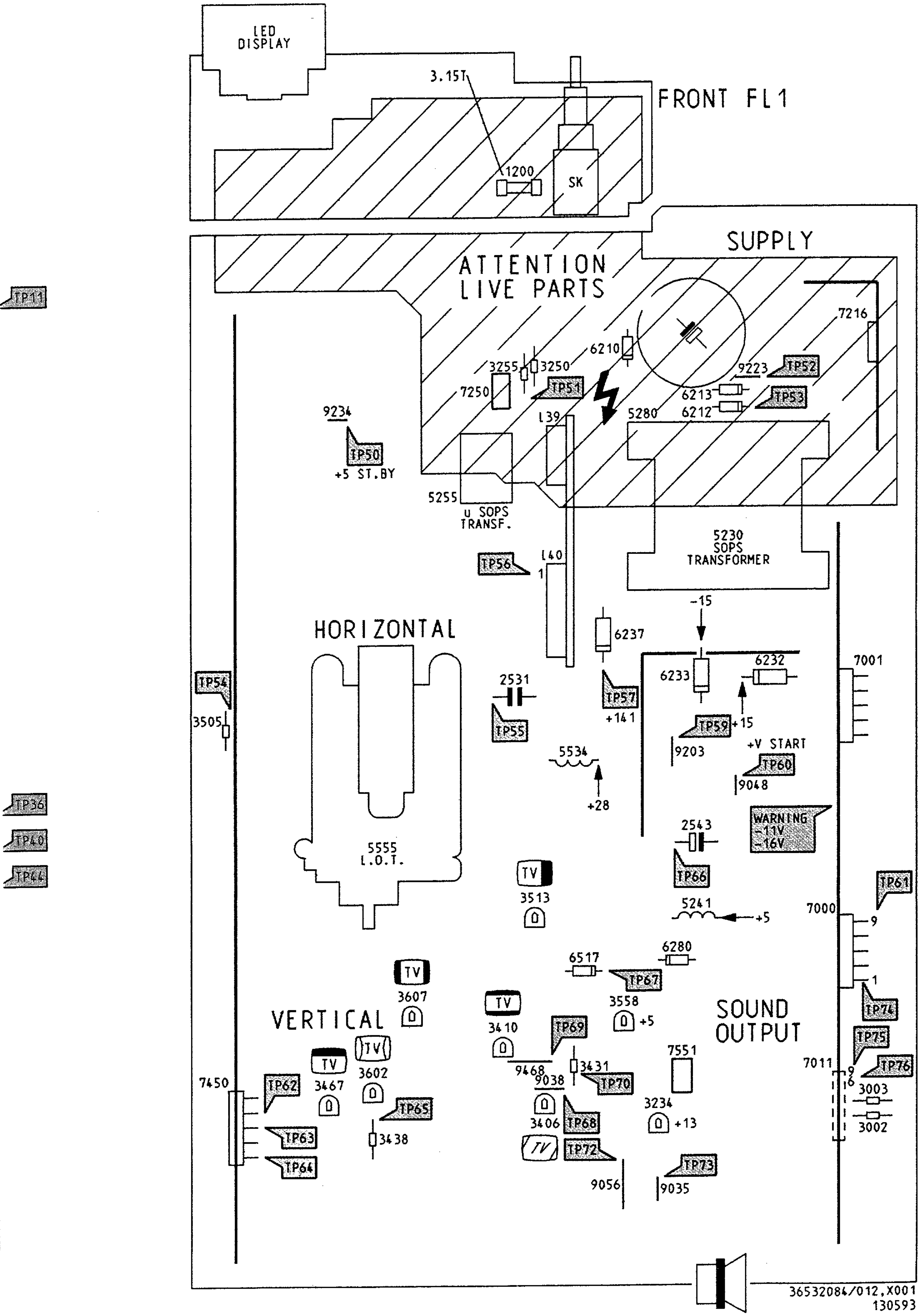
Diagramme schématique


Z P.18
SCAVEM AMPLIFIER
Y P.18
SCAVEM FILTER
CVBS/Y TXT
SC50
(CRT)
V15
F14
F41
SS7
+8B
7430 TDA4680
12 11 10 13
S14
PBCL
D14
1030 PTP
E P.15
D06
1599 CRT
TP40
TP39
TP38
TP34
TP37
TP36
TP35
TP82
TP81
TP80
TP85
TP84
TP83
BC INFO
FIL
+13
FIL
+200
D13
VG2
DYN. FOCUS
FOCUS
EHT
+13
S22
S21
100Hz LFR
L P.23
M P.22
100Hz
L P.24
S20
+13
RXD
IL
CS100
TXT
R G B BL
Y R-Y B-Y
G P.16
S1
L1
+11
-11
7009 LM833N
7000 TDA1521Q
TP73
9053
SQUEETER L
TP72
9056
SQUEETER R
TP74
TP61
7002 LM833N
7001 TDA1521Q
WOOFER
7005
7006
7011 TDA1521Q
SURROUND R
SURROUND L
TP75
TP76
+L
-L
+R
-R
L
R
SOUND PROT.
PROT
3680
3706
7704 LM833
TP11
3722
3700
TP10
3720
B P8.10
PROT
TP62
7450 TDA3654
TP64
TP63
V. DEFL.
L30
ØL
3455
3470
3543
+18
TP66
E/W PROT
E/W
5555
+141
TP67
6517
+200
+24/+32
3528
TP55
2528
3529
EHT
FOCUS
DYN FOCUS
VG2
1/2 EHT
DAF
5526
TP54
7504/7506
2504 2505
2523
6527
2524
6526
A03
A02
A01
H. DEFL.
5520
*2520
5503
3505
7400 TDA2579
TP69
3400
CS100
TP70
FL.B
9039
100Hz
H
9038
31250Hz
TP68
100
9455
TP65
7140
0°C
2110
2101/2102
7100
PANORAMA (16:9)
* NOT FOR PANORAMA
L03
S03
CS100
SC100 PIP/TDA4680
+24 +32
AQUA
EHT INFO
L13
FIL.
+13
+5
6541
PROT
-15/-8
+5
+13
CL46532018/016.XREF 160294

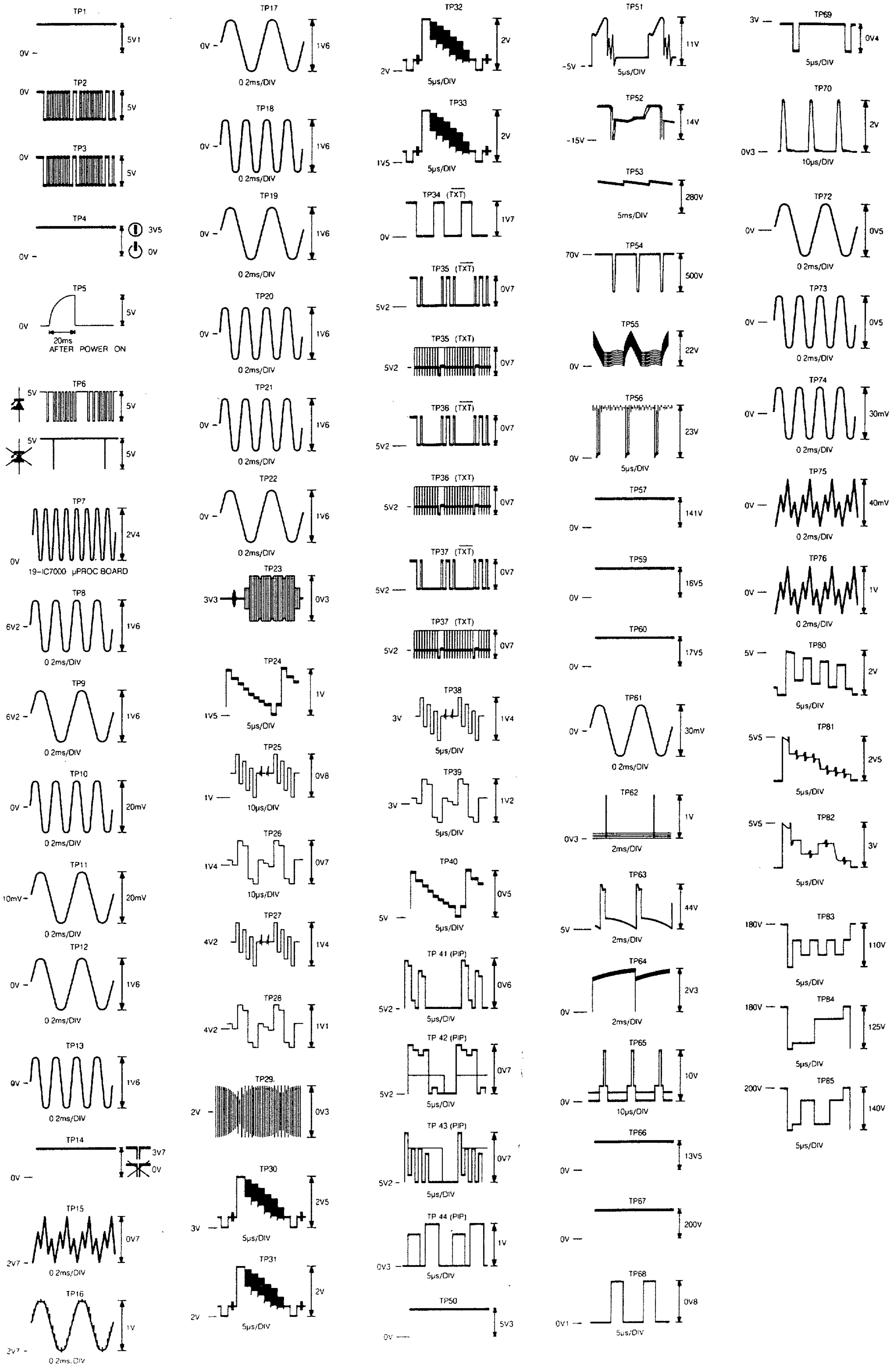
Small signal panel / Klein-signal Platte / Platine à petites signeaux

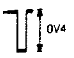

FRONT FL1
TP2
5012
TP1
TP3
TP4
TP5
TP6
TP7
1
2
3
9
12
19
uP
uP-MODULE
7137
X2408
EAROM
S30
WRITE ENABLE
CONTROL
7680
TDA8425
TP8
AUDIO-CONTROL
TP9
2686
2684
TP11
TP10
3700
3722
3720
HEADPHONES AMPLIFIER
7704
LM833
-15
9741
SERVICE DEFAULT MODE
+15
SERVICE MODE
S23
7175
PCF8574
7258
HEF4094
TP20
TP21
9658
7622
HEF4052
AUDIO-RECORD-SOURCE-SELECT
7620
AUDIO-SOURCE-SELECT
HEF4052
9629
9670
TP19
7600
TDA8417
TP15
8
7
STEREO DECODER
TP16
TP12
S42
1
6
TP13
9623
TP18
9622
TP17
9123
TP22
7365
TDA4650
15
TP23
CHROMA-PROCES-SING
CHROMA-DELAY
7366
TDA4661
14
16
TP25
TP26
9316
+13
VIDEO
S85
9335
+33
BLACK STRETCH CTI (TDA4568)
9093
7630
LF353N
BUFFER
AUDIO
PAL SECAM TRANSC.
NICAM DECODER
TP14
EURO AV3 INTERFACE PANEL 1255
S17
2318
TP24
TP29
S43
1
7430
TDA4680
TP34
TP36
TP35
TP37
TP38
TP40
TP39
TP41
TP42
TP44
TP43
1
2
3
4
6
7
8
10
11
12
13
VIDEO CON.
TP31
TP33
9183
9266
7219
TEA6414
S83
11
TP32
9273
TP30
TUNER
Y/C DETECTOR
S82
PIP MODUL
S16
S20
S21
S22
LFR-BOX 100Hz
S57
1
6
SCAVEM
7395
RGB
YUV
7635
LF353N
A
CL46532022/014.X001
160294

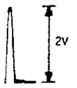
5 Large signal panel / Groß-signal Platte / Platine forts signeaux

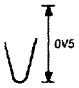

LED DISPLAY
3.15T
FRONT FL1
1200
SK
SUPPLY
ATTENTION LIVE PARTS
7216
6210
3255
3250
9223
TP52
7250
TP51
6213
TP53
6212
9234
L39
5280
TP50
+5 ST.BY
5255
u SOPS TRANSF.
5230 SOPS TRANSFORMER
TP56
L40
1
-15
HORIZONTAL
6237
6232
7001
6233
TP54
2531
TP57
3505
TP55
+141
TP59
+15
+V START
9203
5534
TP60
9048
+28
TP11
TP36
TP40
TP44
2543
WARNING -11V -16V
5555 L.O.T.
TV
3513
TP66
TP61
5241
+5
7000
9
6517
6280
1
TV
3607
TP67
TV
3558
SOUND OUTPUT
VERTICAL
3410
+5
TP69
TP74
TV
TP75
7551
3431
9468
9038
7011
TP76
TV
TP70
9
6
3602
3003
7450
TP62
3467
3234
3406
TP65
TP68
3002
TP63
3438
+13
TV
TP72
TP64
TP73
9056
9035
36532084/012.X001
130593

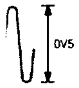
Oscillograms / Oscillogrammes

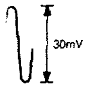


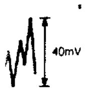

0V4

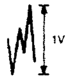

2V

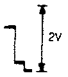

0V5

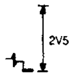

0V5

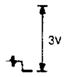

30mV

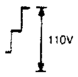

40mV

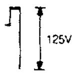

1V

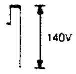

2V


2V5

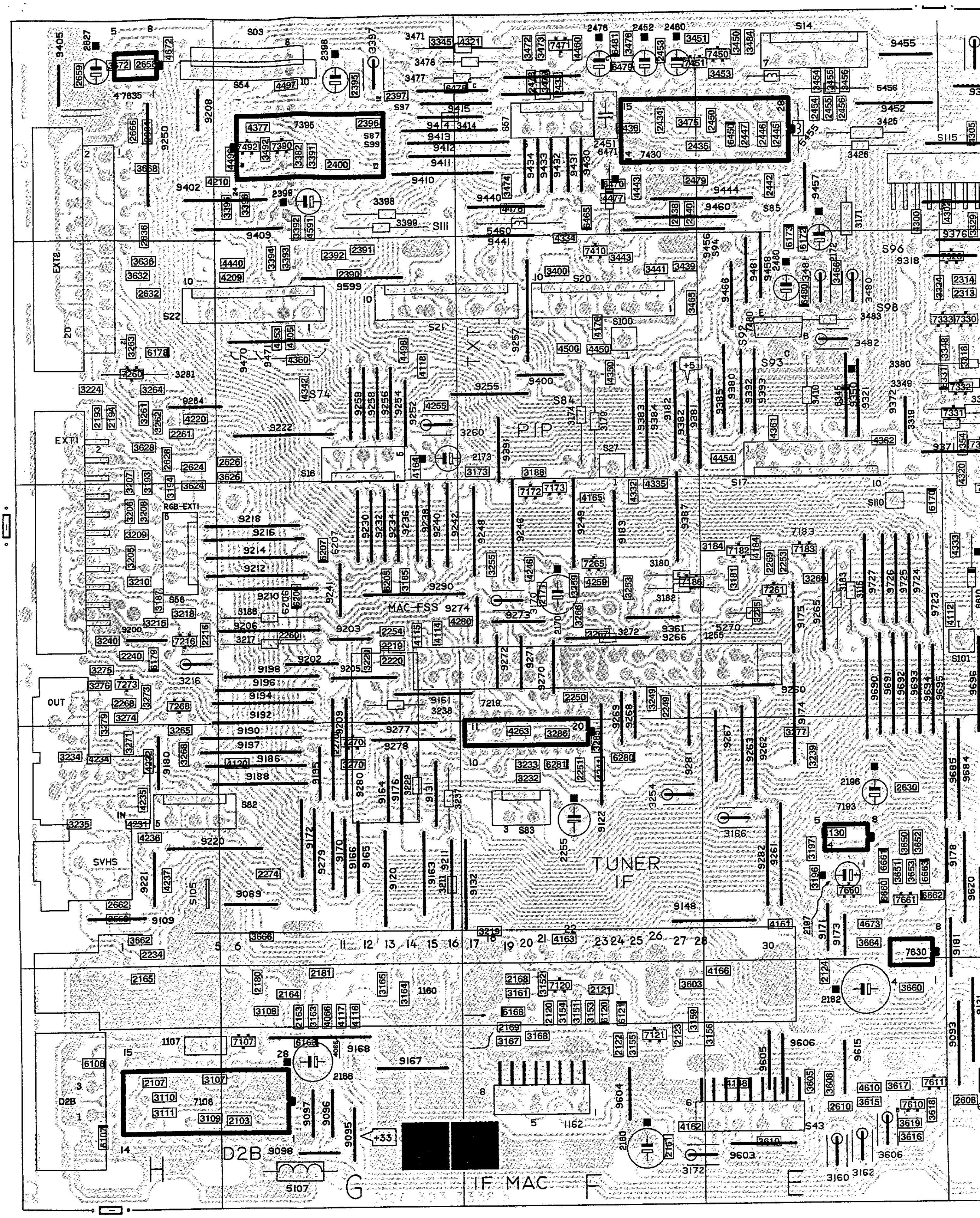

3V


110V


125V

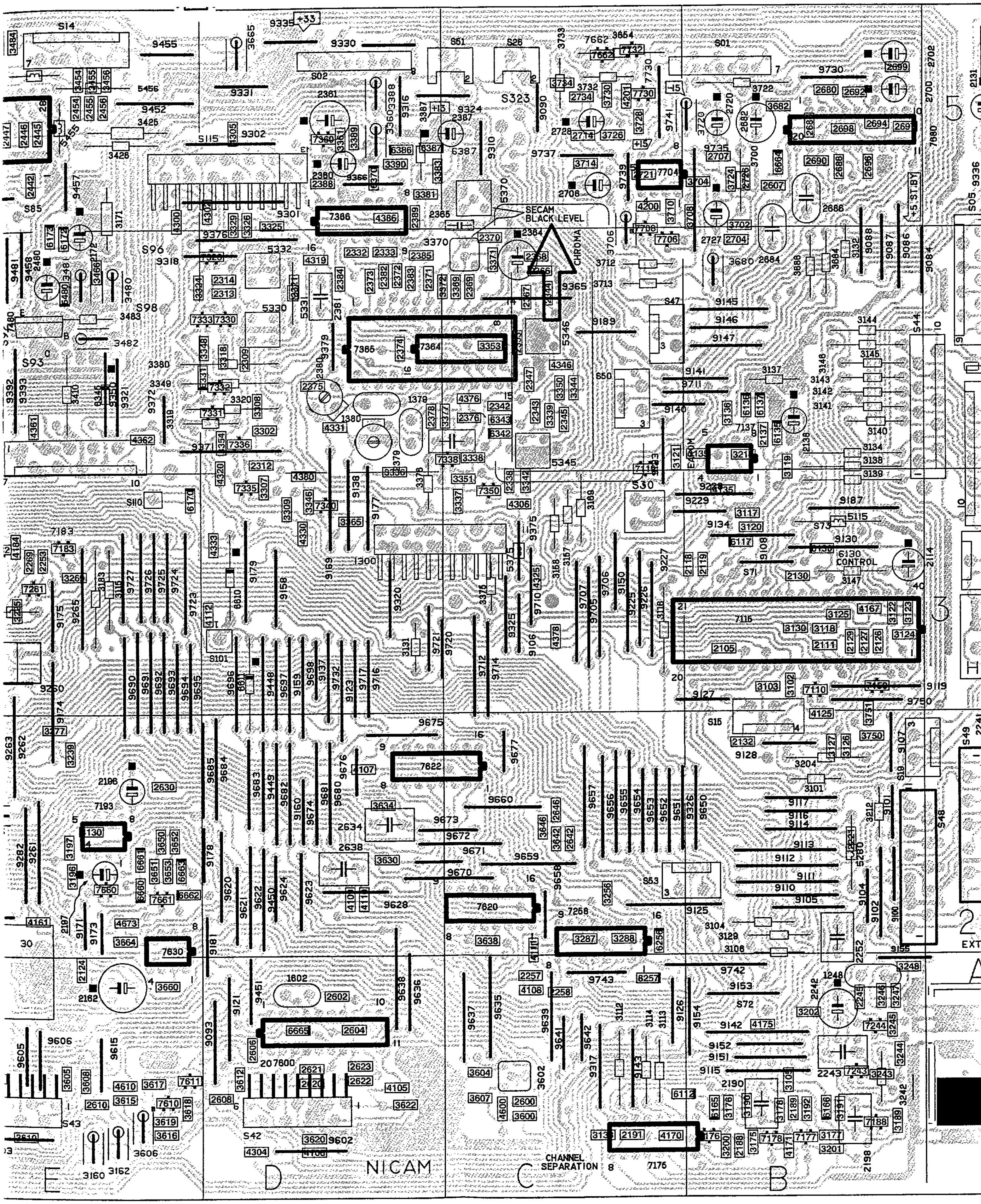

140V

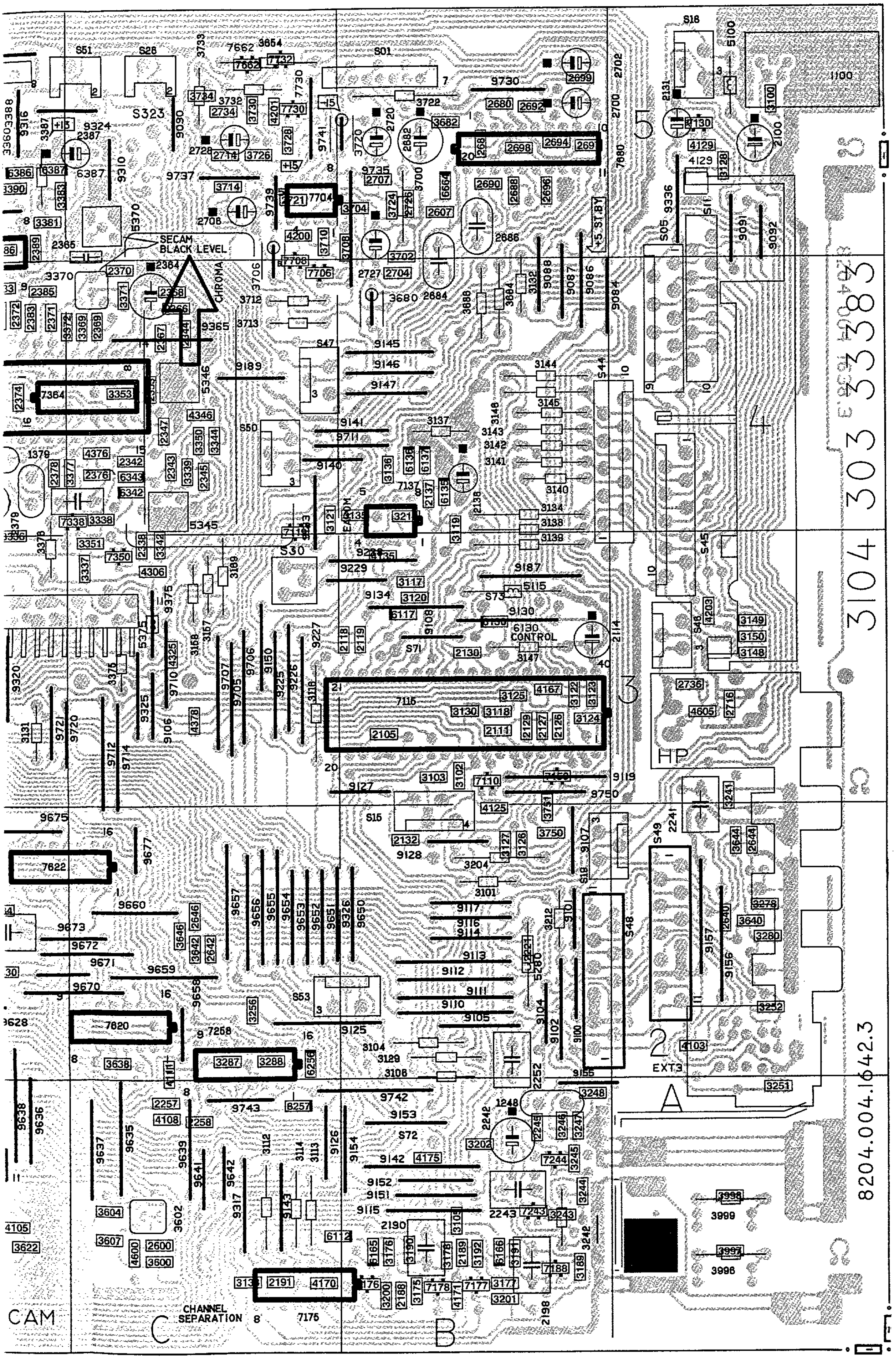
Small signal panel / Klein-signal Platte / Platine à petites signeaux


EXT2
EXT1
RGB-EXT1
OUT
IN
SVHS
D2B
TXT
PIP
MAC-FSS
TUNER
IF
IF MAC
H
G
F
E
S03
S14
S22
S21
S20
S16
S17
S54
S74
S84
S82
S83
S43
S85
S92
S93
S94
S96
S98
S100
S101
S105
S110
S115
+5
+33

PCS 73 729

igneaux


SECAM
BLACK LEVEL
CHROMA
NICAM
CHANNEL
SEPARATION
6130
CONTROL
+5 ST.BY
E
D
C
B
2
EXT



EXT1	H3	2332	D4	3100
EXT2	H4	2333	D4	3101
EXT3	A3	2338	C3	3102
D2B	H1	2342	C4	3103
SVHS	H2	2343	C4	3104
S01	C5	2344	C4	3105
S02	D5	2345	C4	3106
S03	H5	2347	C4	3107
S05	A5	2353	C4	3108
S11	A5	2360	D5	3109
S14	E5	2361	D5	3110
S15	B3	2364	C4	3111
S16	G4	2365	C5	3112
S17	E4	2366	C4	3113
S18	A5	2367	C4	3114
S19	B2	2368	C4	3115
S20	F4	2369	C4	3116
S21	F4	2370	C5	3117
S22	G4	2371	D4	3118
S26	C5	2372	D4	3119
S27	F4	2373	D4	3120
S42	D1	2374	D4	3121
S43	F1	2375	D4	3122
S44	B4	2376	C4	3123
S45	A4	2377	D4	3124
S46	A3	2378	D4	3125
S47	C4	2379	D4	3126
S48	B2	2380	D4	3127
S49	A2	2381	D4	3128
S50	C4	2382	D4	3129
S51	C5	2383	D4	3130
S53	B2	2384	D4	3131
S54	H5	2385	D4	3132
S56	H3	2387	D5	3133
S57	F5	2388	D5	3134
S82	H2	2389	D5	3135
S83	F2	2390	G4	3136
S100	F4	2391	G5	3137
S101	D3	2392	G4	3138
S105	H2	2395	G5	3139
S115	E5	2396	G5	3140
1100	A5	2397	G5	3141
1107	H1	2398	G5	3142
1160	E2	2399	G5	3143
1162	F1	2400	G5	3144
1248	B1	2433	F5	3145
1300	D3	2434	F5	3146
1379	D4	2435	F5	3147
1380	D4	2436	F5	3148
1602	D1	2438	F5	3149
2100	A5	2440	F5	3150
2103	H1	2442	E5	3151
2105	B3	2445	E5	3152
2107	H1	2446	E5	3153
2111	B3	2447	E5	3154
2114	B3	2450	F5	3155
2118	C3	2451	F5	3156
2119	B3	2452	F5	3157
2120	F1	2453	F5	3158
2121	F1	2454	E5	3159
2122	F1	2455	E5	3160
2123	F1	2456	E5	3161
2124	E1	2460	F5	3162
2126	B3	2476	F5	3163
2127	B3	2478	F5	3164
2129	B3	2479	F5	3165
2130	B3	2480	E4	3166
2131	A5	2600	C1	3167
2132	B2	2602	D1	3168
2137	B4	2604	D1	3169
2138	B4	2606	D1	3170
2160	F1	2607	B5	3171
2161	F1	2608	D1	3172
2162	E1	2610	E1	3173
2163	G1	2620	D1	3174
2164	G1	2621	D1	3175
2165	H1	2622	D1	3176
2166	G1	2623	D1	3177
2168	F1	2624	H4	3178
2169	F1	2626	H4	3179
2170	F3	2627	H5	3180
2171	F3	2628	H4	3181
2172	E5	2630	E2	3182
2173	G4	2632	H4	3183
2180	G1	2634	D2	3184
2181	G1	2636	H5	3185
2188	B1	2638	D2	3186
2189	B1	2640	A2	3187
2190	B1	2642	C2	3188
2191	C1	2644	A2	3189
2193	H4	2646	C2	3190
2194	H4	2658	H5	3191
2196	E2	2659	H5	3192
2197	E2	2660	H2	3193
2198	B1	2662	H2	3194
2216	H3	2664	H5	3196
2219	G3	2666	H5	3197
2220	G3	2680	B5	3200
2221	B2	2681	B5	3201
2234	H2	2682	B5	3202
2240	H3	2684	B5	3204
2241	A3	2686	B5	3205
2242	B1	2688	B5	3206
2243	B1	2690	B5	3207
2245	B1	2692	B5	3208
2249	F3	2694	B5	3209
2250	F3	2696	B5	3210
2251	F2	2697	B5	3211
2252	B2	2698	B5	3212
2253	E3	2699	B5	3213
2254	G3	2700	B5	3215
2255	F2	2702	B5	3216
2257	C1	2704	B4	3217
2258	C1	2706	C5	3218
2260	G3	2707	B5	3219
2261	H4	2714	C5	322
2268	H3	2716	A3	322
2269	E3	2720	B5	322
2270	G2	2721	C5	322
2274	G2	2726	B5	323
2309	D4	2727	B5	323
2312	D4	2728	C5	323
2313	D4	2734	C5	323
2314	D4	2736	A3	323

3100	A5	3238	G3	3480	E4	4259	F3	7172	F3	9159	D3	9383	F4
3101	B2	3239	E2	3481	E4	4263	F2	7173	F4	9160	D2	9384	F4
3102	B3	3240	H3	3482	E4	4280	G3	7175	B1	9161	G3	9385	F4
3103	B3	3241	A3	3483	E4	4300	E5	7176	B1	9163	G2	9387	F3
3104	B2	3242	B1	3484	E5	4302	E5	7177	B1	9164	G2	9391	F4
3105	B1	3243	B1	3492	G5	4304	D1	7178	B1	9165	G2	9392	E4
3106	B2	3244	B1	3600	C1	4305	D5	7182	E3	9166	G2	9393	E4
3107	H1	3245	B1	3602	C1	4306	C3	7183	E3	9167	G1	9400	F4
3108	G1	3246	B1	3603	F1	4319	D4	7186	F3	9168	G1	9402	H5
3109	H1	3247	B1	3604	C1	4320	D4	7188	B1	9169	D3	9403	F5
3110	H1	3248	B1	3605	E1	4321	G5	7193	E2	9170	G2	9404	F5
3111	H1	3249	F3	3606	E1	4325	C3	7216	H3	9171	E2	9405	H5
3112	C1	3251	A1	3607	C1	4330	D3	7219	F2	9172	G2	9409	H5
3113	C1	3252	A2	3608	E1	4331	D4	7243	B1	9173	E2	9410	G5
3114	C1	3253	F3	3610	E1	4332	F3	7244	B1	9174	E3	9411	G5
3115	E3	3254	F2	3612	D1	4333	E3	7258	C1	9175	E3	9412	G5
3116	C3	3255	F3	3615	E1	4334	F5	7260	H4	9176	G2	9413	G5
3117	B3	3256	C2	3616	E1	4335	F4	7261	E3	9177	D3	9414	G5
3118	B3	3257	C1	3617	E1	4342	G4	7265	F3	9178	E2	9415	G5
3119	B4	3259	F3	3618	E1	4346	C4	7268	H3	9179	D3	9416	G5
3120	B3	3260	G4	3619	E1	4350	F4	7270	G2	9180	H2	9430	F5
3121	C4	3261	H4	3620	D1	4360	G4	7273	H3	9181	E2	9431	F5
3122	B3	3262	H4	3622	D1	4361	E4	7326	E4	9182	F4	9432	F5
3123	B3	3263	H4	3624	H4	4362	E4	7330	D4	9183	F3	9433	F5
3124	B3	3264	H4	3626	H4	4376	C4	7331	E4	9186	G2	9434	F5
3125	B3	3265	H3	3628	H4	4377	G5	7332	D4	9187	B3	9440	F5
3126	B2	3266	F3	3630	D2	4378	C3	7333	E4	9188	G2	9441	F5
3127	B2	3267	F3	3632	H4	4380	D4	7335	D3	9189	C4	9444	F5
3128	A5	3268	H2	3634	D2	4386	D5	7336	D4	9190	G2	9448	D3
3129	B2	3269	E3	3636	H4	4440	H4	7338	D4	9192	G3	9449	D2
3130	B3	3270	G2	3638	C2	4443	F5	7340	D3	9194	G3	9450	D2
3131	D3	3271	H2	3640	A2	4450	F4	7350	C3	9195	G2	9451	D1
3132	B4	3272	F3	3642	C2	4453	G4	7360	D5	9196	G3	9452	E5
3133	C1	3273	H3	3644	A2	4454	E4	7364	D4	9197	G2	9455	E5
3134	B4	3274	H3	3646	C2	4460	F5	7365	D4	9198	G3	9456	F5
3135	B4	3275	H3	3650	E2	4476	F5	7366	D5	9200	H3	9457	E5
3136	B4	3276	H3	3651	E2	4477	F5	7390	G5	9202	G3	9458	E4
3137	B4	3277	E2	3652	E2	4496	H5	7395	G5	9203	G3	9460	F5
3138	B4	3278	A2	3653	E2	4497	G5	7410	F4	9205	G3	9466	E4
3139	B4	3279	H3	3654	C5	4498	G4	7430	E5	9206	G3	9470	G4
3140	B4	3280	A2	3660	E1	4500	F4	7450	E5	9208	H5	9471	G4
3141	B4	3281	H4	3662	H2	4591	G5	7451	F5	9209	G2	9481	E4
3142	B4	3285	F2	3664	E2	4600	C1	7471	F5	9210	G3	9599	G4
3143	B4	3286	F2	3665	D5	4605	A3	7480	E4	9211	G2	9602	D1
3144	B4	3287	C2	3666	G2	4610	E1	7492	G5	9212	G3	9603	E1
3145	B4	3288	C2	3668	H5	4672	H5	7600	D1	9214	G3	9604	F1
3146	B4	3302	D4	3672	H5	4673	E2	7610	E1	9216	G3	9605	E1
3147	B3	3307	D3	3680	B4	5100	A5	7611	E1	9218	G3	9606	E1
3148	A3	3308	D4	3682	B5	5107	G1	7620	C2	9220	H2	9615	E1
3149	A3	3309	D3	3684	B4	5115	B3	7622	C2	9221	H2	9620	D2
3150	A3	3318	D4	3686	B4	5270	E3	7630	E1	9222	G4	9621	D2
3151	F1	3319	E4	3700	B5	5280	B2	7635	H5	9225	C3	9622	D2
3152	F1	3320	D4	3702	B5	5303	F5	7660	E2	9226	C3	9623	D2
3153	F1	3321	D4	3704	B5	5304	F5	7661	E2	9227	C3	9624	D2
3154	F1	3324	E4	3706	C5	5330	D4	7662	C5	9228	B3	9628	D2
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3156	F1	3326	D5	3710	C5	5332	D4	7704	C5	9230	G3	9636	D1
3157	C3	3329	D5	3712	C4	5345	C4	7706	C5	9232	G3	9637	C1
3158	C3	3336	D4	3713	C4	5346	C4	7708	C5	9234	G3	9638	D1
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3160	E1	3338	C4	3720	C5	5375	C3	7732	C5	9238	G3	9641	C1
3161	F1	3339	C4	3722	B5	5454	E5	9084	B4	9240	G3	9642	C1
3162	E1	3342	C3	3724	B5	5455	E5	9086	B4	9241	G3	9650	B2
3163	G1	3344	C4	3726	C5	5456	E5	9087	B4	9242	G3	9651	C2
3164	G1	3345	G5	3728	C5	5460	F5	9088	B5	9246	F3	9652	C2
3165	G1	3346	D3	3730	C5	6107	H1	9089	G2	9248	G3	9653	C2
3166	E2	3348	E4	3732	C5	6108	H1	9090	C5	9249	F3	9654	C2
3167	F1	3349	D4	3733	C5	6112	C1	9091	A5	9250	H5	9655	C2
3168	F1	3350	C4	3734	C5	6117	B3	9092	A5	9252	G4	9656	C2
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3172	F1	3360	D5	3997	A1	6135	B4	9097	G1	9257	F4	9660	C2
3173	G4	3361	D5	3998	A1	6136	B4	9098	G1	9258	G4	9670	D2
3174	F4	3365	D3	3999	A1	6137	B4	9100	B2	9259	G4	9671	D2
3175	B1	3369	C4	4066	G1	6163	G1	9101	B2	9260	E3	9672	C2
3176	B1	3370	D4	4103	A2	6165	B1	9102	B2	9261	E2	9673	D2
3177	B1	3371	C4	4105	D1	6166	B1	9104	B2	9262	E2	9674	D2
3178	B1	3372	D4	4106	D1	6168	F1	9105	B2	9263	E2	9675	D2
3179	F4	3375	C3	4107	D2	6170	E3	9106	C3	9264	H4	9676	D2
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3181	E3	3377	D4	4109	D2	6173	E5	9108	B3	9266	F3	9680	D2
3182	F3	3380	D4	4110	D2	6178	H4	9109	H2	9267	F2	9681	D2
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3193	H4	3394	G4	4130	E2	6343	C4	9121	D1	9280	G2	9696	D3
3194	H4	3395	H5	4135	B3	6345	E4	9122	F2	9281	F3	9697	D3
3196	E2	3396	G5	4148	E1	6370	D5	9123	D3	9282	E2	9698	D3
3197	E2	3397	G5	4161	E2	6386	D5	9125	C2	9290	G3	9705	C3
3200	B1	3398	G5	4162	F1	6387	D5	9126	C1	9301	D5	9706	C3
3201	B1	3399	G5	4163	F2	6450	E5	9127	B3	9302	D5	9707	C3
3202	B1	3400	F4	4164	G4	6465	F5	9128	B2	9310	C5	9710	C3
3204	B2	3410	E4	4165	F3	6470	F5	9130	B3	9316	D5	9711	C4
3205	H3	3414	G5	4166	F1	6471	F5	9131	G2	9317	C1	9712	C3
3206	H3	3425	E5	4167	B3	6478	G5	9132	G2	9318	E4	9714	C3
3207	H4	3426	E5	4170	C1	6479	F5	9133	C4	9320	D3	9716	D3
3208	H3	3439	F4	4171	B1	6480	E4	9134	B3	9321	E4	9717	D3
3209	H3	3441	F4	4175	B1	6481	F5	9137	D3	9324	D5	9720	D3
3210	H3	3443	F4	4176	F4	6610	D3	9138	D3	9325	C3	9721	D3
3211	G2	3450	E5	4184	E3	6611	D3	9140	B4	9326	C2	9723	E3
3212	B2	3451	F5	4200	C5	6660	E2	9141	B4	9330	D5	9724	E3
3213	B4	3453	E5	4201	C5	6661	E2	9142	B1	9331	D5	9725	E3
3215	H3	3454	E5	4203	A3	6662	E2	9143	C1	9335	D5	9726	E3
3216	H3	3455	E5	4205	G4	6663	E2	9145	B4	9336	A5	9727	E3
3217	G3	3456	E5	4209	H4	6664	B5	9146	B4	9350	E4	9730	B5
3218	H3	3465	F4	4210	H5	6665	D1	9147	B4	9361	F3	9732	D3
3219	F2	3466	E4	4220	H4	7107	H1	9148	F2	9365	C4	9735	B5
3220	G3	3471	G5	4231	H2	7108	G1	9150	C3	9366	D5	9737	C5
3222	G2	3472	F5	4232	H2	7110	B3	9151	B1	9371	D4	9739	C5
3224	H4	3473	F5	4234	H2	7115	B3	9152	B1	9372	E4	9741	C5
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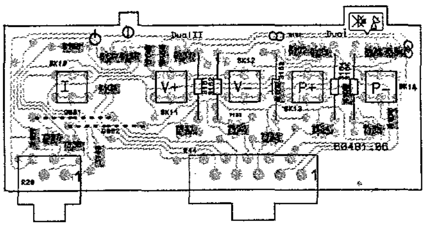
3232	F2	3475	F5	4236	H2	7120	F1	9154	C1	9376	D5	9743	C1
3233	F2	3476	F5	4237	H2	7121	F1	9155	B1	9379	D4	9750	B3
3234	H2	3477	G5	4241	F2	7130	A5	9156	A2	9380	E4		
3235	H2	3478	G5	4246	F3	7137	B4	9157	A2	9381	F4		
3237	G2	3479	F5	4255	G4	7150	B3	9158	D3	9382	F4		

FL2 LED/Control



FL4 LED/Control

3148 A 1	3163 C 1	6131 C 1	6136 D 1	7134 B 1	9101 A 1	SK13 B 1
3149 A 1	3164 B 1	6132 C 1	6137 D 1	7135 B 1	R20 D 1	SK14 B 1
3150 A 1	3165 B 1	6133 C 1	7131 C 1	7136 C 1	R44 A 1	
3161 C 1	3166 C 1	6134 B 1	7132 C 1	7137 D 1	SK11 C 1	
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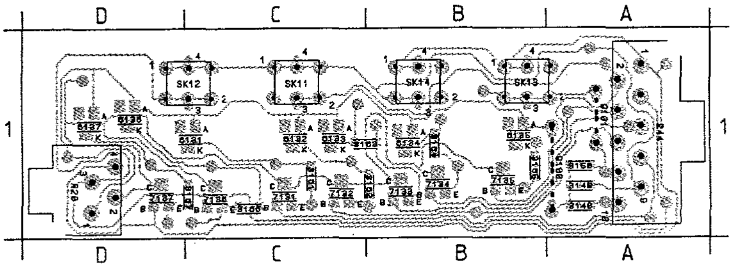
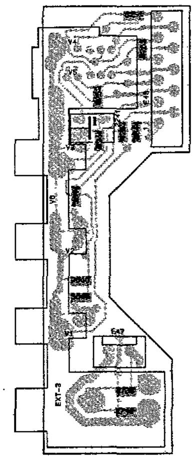
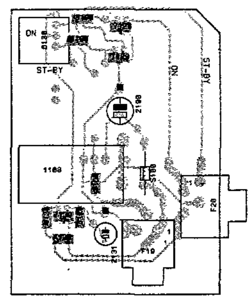


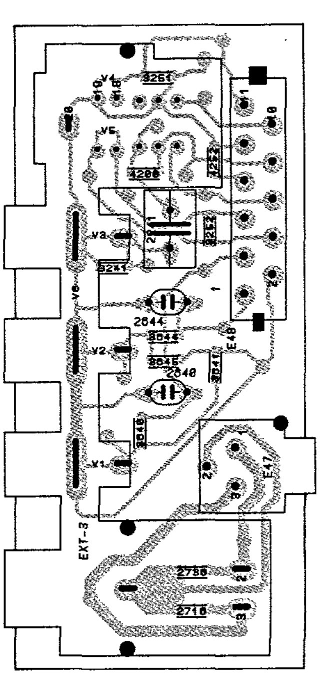
FL2 Front



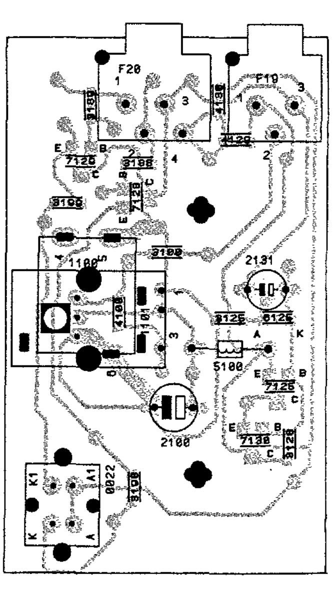
FL2 IR



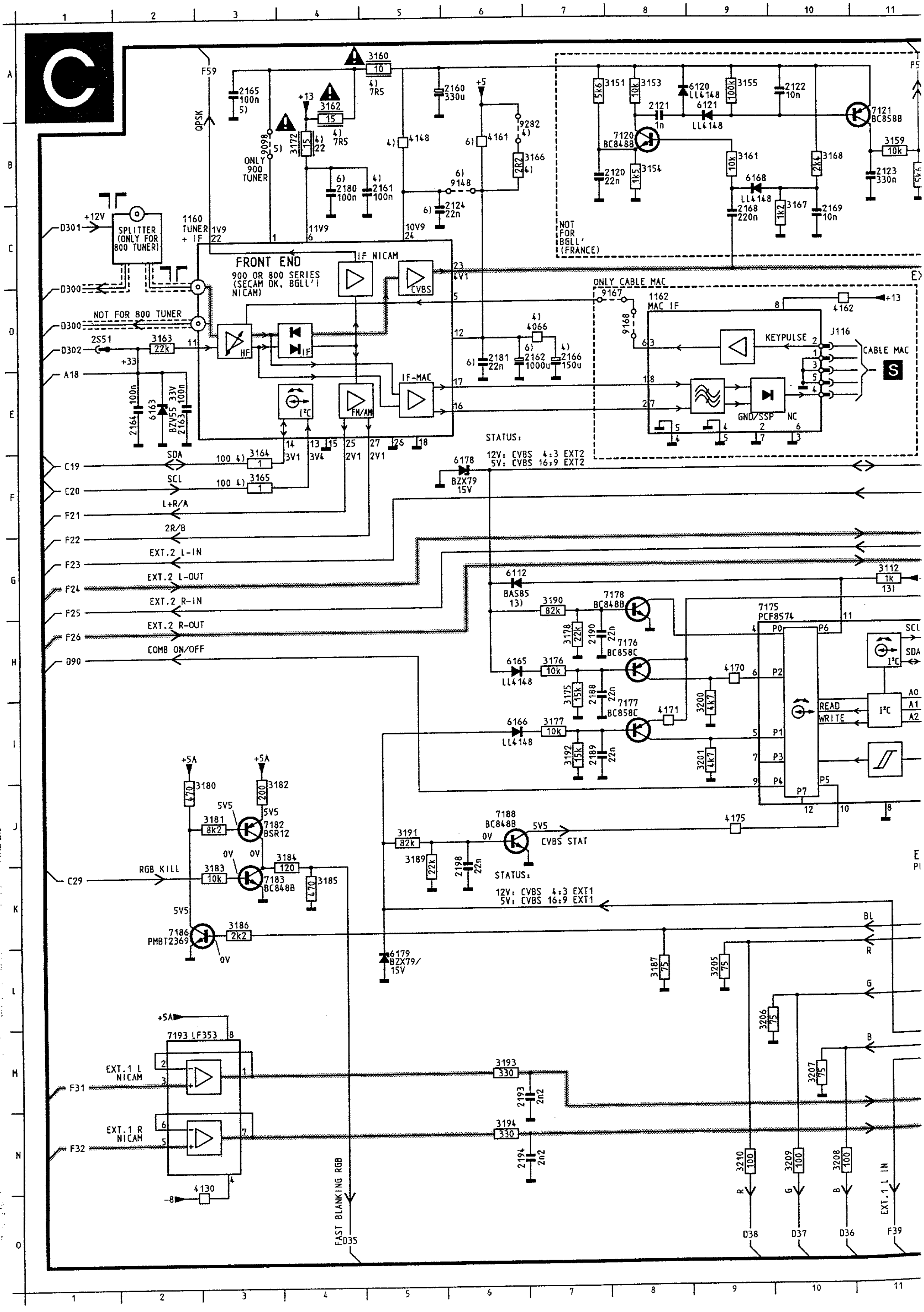
FL4 Front



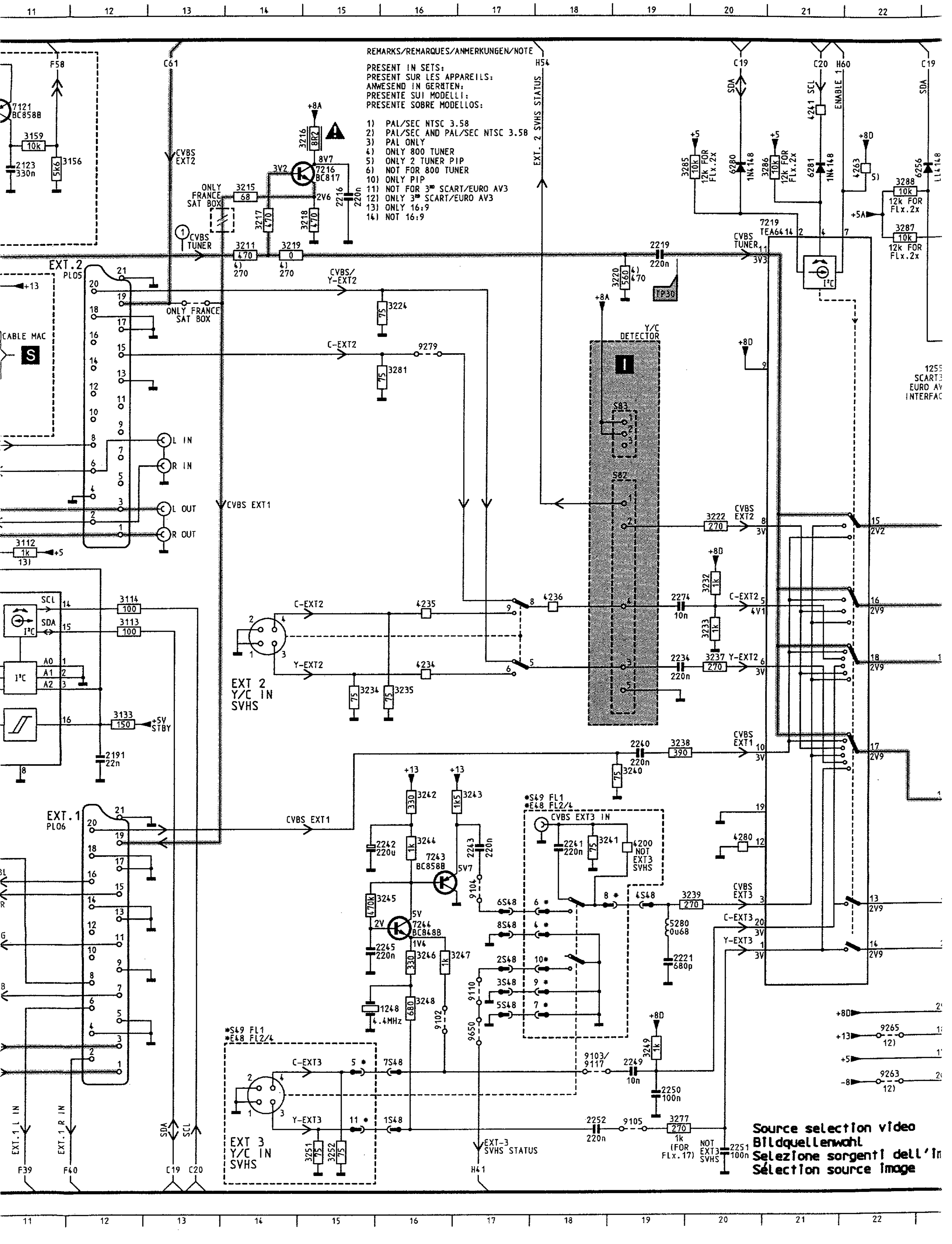
FL4 IR LED panel

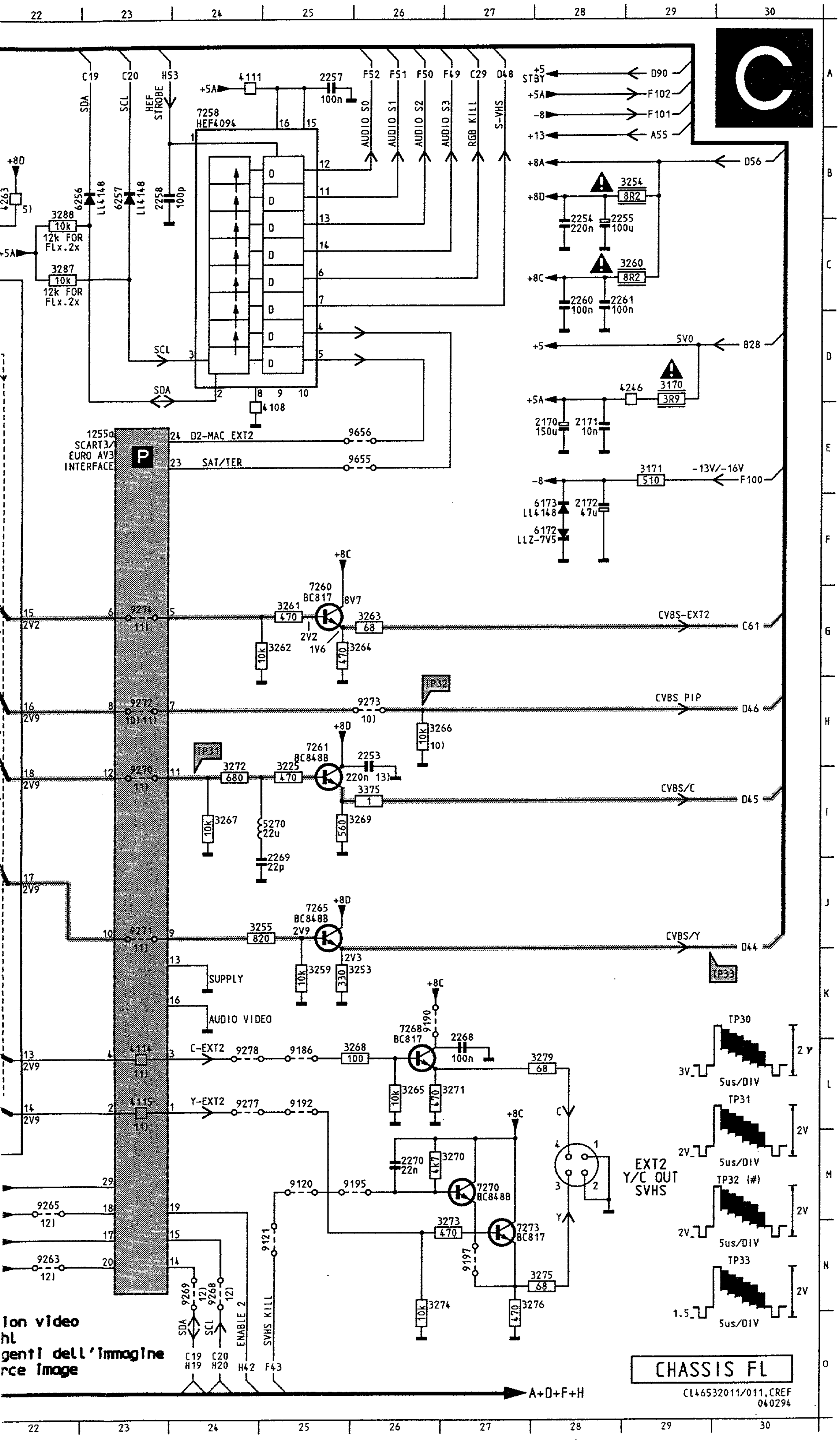


Source selection / Quellenwahl /


C
FRONT END
900 OR 800 SERIES
(SECAM DK, BGLL'I NICAM)
IF NICAM
CVBS
HF
IF
IF-MAC
I²C
FM/AM
1160 TUNER + IF
SPLITTER (ONLY FOR 800 TUNER)
NOT FOR 800 TUNER
ONLY 900 TUNER
QPSK
F59
D301
D300
D302
2S51
A18
+12V
+33
+13
+5
C19
C20
F21
F22
F23
F24
F25
F26
H90
C29
F31
F32
SDA
SCL
L+R/A
2R/B
EXT.2 L-IN
EXT.2 L-OUT
EXT.2 R-IN
EXT.2 R-OUT
COMB ON/OFF
RGB KILL
EXT.1 L NICAM
EXT.1 R NICAM
7193 LF353
FAST BLANKING RGB
D35
D36
D37
D38
F39
EXT.1 L IN
NOT FOR BGLL' (FRANCE)
ONLY CABLE MAC
1162 MAC IF
KEYPULSE
J116
CABLE MAC
S
GND/SSP
NC
STATUS:
12V: CVBS 4:3 EXT2
5V: CVBS 16:9 EXT2
12V: CVBS 4:3 EXT1
5V: CVBS 16:9 EXT1
CVBS STAT
7175 PCF8574
READ
WRITE
I²C
A0
A1
A2
BL
R
G
B
7120 BC848B
7121 BC858B
7178 BC848B
7176 BC858C
7177 BC858C
7188 BC848B
7182 BSR12
7183 BC848B
7186 PMBT2369
6178 BZX79 15V
6179 BZX79/15V
6112 BAS85
6165 LL4148
6166 LL4148
6120 LL4148
6121 LL4148
6168 LL4148
6163 BZV55 33V
3160 10
3162 15
3172 15
3163 22k
3164 1
3165 1
3190 82k
3176 10k
3177 10k
3191 82k
3193 330
3194 330
3112 1k
3205 75
3206 75
3207 75
3187 75
3208 100
3209 100
3210 100
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O

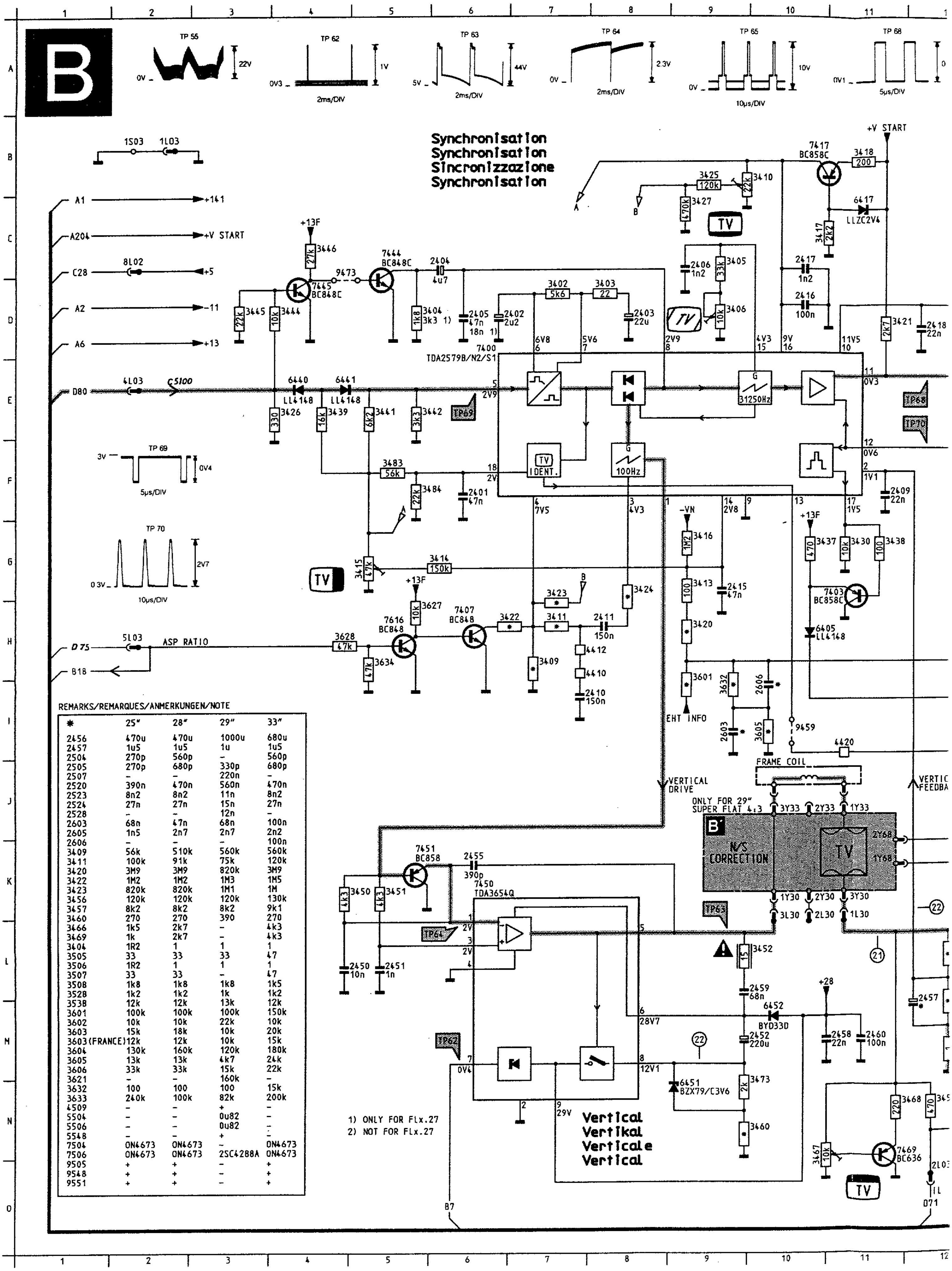
7 Sélection de source


REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) PAL/SEC NTSC 3.58
2) PAL/SEC AND PAL/SEC NTSC 3.58
3) PAL ONLY
4) ONLY 800 TUNER
5) ONLY 2 TUNER PIP
6) NOT FOR 800 TUNER
10) ONLY PIP
11) NOT FOR 3RD SCART/EURO AV3
12) ONLY 3RD SCART/EURO AV3
13) ONLY 16:9
14) NOT 16:9
F58
C61
H54
C19
C20
H60
7121 BC858B
3159 10k
2123 330n
3156 5k6
CVBS EXT2
+8A
3216 8R2
7216 BC817
3V2
8V7
2V6
2216 220n
ONLY FRANCE SAT BOX
3215 68
3217 470
3218 470
CVBS TUNER
3211 470
3219 0
EXT.2 PL05
+13
CABLE MAC
S
CVBS/Y-EXT2
3224 75
ONLY FRANCE SAT BOX
C-EXT2
9279
3281 75
L IN
R IN
L OUT
R OUT
CVBS EXT1
3112 1k 13)
+5
SCL
SDA
I²C
A0 A1 A2
3114 100
3113 100
3133 150
+5V STBY
2191 22n
C-EXT2
4235
Y-EXT2
4234
3234 75
3235 75
EXT 2 Y/C IN SVHS
EXT. 2 SVHS STATUS
2219 220n
3220 560 4) 470
TP30
Y/C DETECTOR
SB3
SB2
+8D
4236
2274 10n
3232 1k
3233 1k
2234 220n
3237 270
C-EXT2
Y-EXT2
4V1
3222 270
CVBS EXT2
CVBS TUNER
7219 TEA6414
I²C
3285 10k 12k FOR FLx.2x
6280 1N4148
3286 10k 12k FOR FLx.2x
6281 1N4148
4241 SCL
ENABLE 1
4263 5)
3288 10k 12k FOR FLx.2x
3287 10k 12k FOR FLx.2x
6256
+5A
1255 SCART3 EURO AV INTERFACE
2V2
2V9
EXT.1 PL06
CVBS EXT1
2240 220n
3238 390
3240 75
CVBS EXT1
+13
3242 330
3243 1k5
2242 220u
3244 1k
7243 BC858B
5V7
2243 220n
3245 470k
7244 BC848B
5V
2V
1V4
2245 220n
3246 330
3247 1k
1248 4.4MHz
3248 680
9104
9110
9102
9650
*S49 FL1
*E48 FL2/4
CVBS EXT3 IN
2241 220n
3241 75
4200 NOT EXT3 SVHS
6S48
8S48
2S48
3S48
5S48
4S48
3239 270
CVBS EXT3
5280 0u68
2221 680p
C-EXT3
Y-EXT3
4280
EXT 3 Y/C IN SVHS
C-EXT3
Y-EXT3
7S48
1S48
3251 75
3252 75
9103/9117
2249 10n
3249 1k
2250 100n
2252 220n
9105
3277 270 1k (FOR FLx.17)
NOT EXT3 SVHS
2251 100n
EXT-3 SVHS STATUS
+8D
+13
+5
-8
9265 12)
9263 12)
EXT.1 L IN
EXT.1 R IN
SDA
SCL
F39
F40
C19
C20
H41
Source selection video
Bildquellenwahl
Selezione sorgenti dell'im
Sélection source image
11 12 13 14 15 16 17 18 19 20 21 22


22
23
24
25
26
27
28
29
30
C
C19
C20
H53
SDA
SCL
HEF STROBE
+5A
4111
2257
100n
7258
HEF4094
F52
F51
F50
F49
C29
D48
AUDIO S0
AUDIO S1
AUDIO S2
AUDIO S3
RGB KILL
S-VHS
+5 STBY
D90
+5A
F102
-8
F101
+13
A55
+8A
D56
+8D
3254
8R2
2254
220n
2255
100u
+8C
3260
8R2
2260
100n
2261
100n
+5
5V0
B28
+5A
4246
3170
3R9
2170
150u
2171
10n
-8
3171
510
-13V/-16V
F100
6173
LL4148
6172
LLZ-7V5
2172
47u
+80
4263
3288
10k
12k FOR FLx.2x
3287
10k
12k FOR FLx.2x
6256
LL4148
6257
LL4148
2258
100p
4108
1255a SCART3/ EURO AV3 INTERFACE
P
D2-MAC EXT2
9656
SAT/TER
9655
+8C
7260
BC817
8V7
3261
470
3263
68
2V2
1V6
3262
10k
3264
470
CVBS-EXT2
C61
9274
9272
9273
TP32
3266
10k
CVBS PIP
D46
TP31
9270
3272
680
3225
470
7261
BC848B
2253
220n
3375
1
5270
22u
2269
22p
3267
10k
3269
560
CVBS/C
D45
+8D
7265
BC848B
9271
3255
820
2V9
2V3
3259
10k
3253
330
CVBS/Y
D44
TP33
SUPPLY
AUDIO VIDEO
4114
C-EXT2
9278
9186
3268
100
7268
BC817
9190
2268
100n
3279
68
3265
10k
3271
470
4115
Y-EXT2
9277
9192
+8C
2270
22n
3270
4k7
7270
BC848B
7273
BC817
3273
470
9197
3275
68
3274
10k
3276
470
9120
9195
9121
9265
9263
9269
9268
ENABLE 2
SVHS KILL
SDA
SCL
C19 H19
C20 H20
H42
F43
A+D+F+H
EXT2 Y/C OUT SVHS
TP30
TP31
TP32 (#)
TP33
3V
2V
1.5
5us/DIV
Ion video
hl
genti dell'immagine
rce image
CHASSIS FL
CL46532011/011.CREF 040294

1160	C 2	3237	I20	9192	L25
1162	D 8	3238	J19	9195	M26
1248	M16	3239	L20	9197	N27
1255	E23	3240	J19	9263	N22
2120	B 7	3241	K18	9265	M22
2121	A 8	3242	J16	9268	N24
2122	A10	3243	J17	9269	N24
2123	B11	3244	K16	9270	I23
2124	C 6	3245	L16	9271	J23
2160	A 6	3246	L16	9272	H23
2161	B 5	3247	L16	9273	H26
2162	D 7	3248	M16	9274	G23
2163	E 2	3249	N19	9277	L24
2164	E 2	3251	O15	9278	L24
2165	A 3	3252	O15	9279	E16
2166	D 7	3253	K25	9282	B 6
2168	C 9	3254	B29	9650	M17
2169	C10	3255	J25	9655	E26
2170	E28	3259	K25	9656	E26
2171	E28	3260	C29		
2172	F28	3261	G25		
2180	B 4	3262	G25		
2181	D 6	3263	G26		
2188	I 7	3264	G25		
2189	I 7	3265	L26		
2190	H 7	3266	H26		
2191	J12	3267	I24		
2193	M 6	3268	L26		
2194	N 6	3269	I25		
2198	K 6	3270	M27		
2216	C15	3271	L27		
2219	C19	3272	I24		
2221	L19	3273	N27		
2234	I19	3274	N26		
2240	J19	3275	N28		
2241	K18	3276	N27		
2242	K15	3277	O19		
2243	K17	3279	L28		
2245	L15	3281	E16		
2249	N19	3285	B19		
2250	N19	3286	B21		
2251	O20	3287	C22		
2252	O18	3288	B22		
2253	H26	3375	I26		
2254	C28	4066	D 7		
2255	C28	4108	E25		
2257	A25	4111	A24		
2258	B23	4114	L23		
2260	C28	4115	L23		
2261	C28	4130	N 3		
2268	L27	4148	B 5		
2269	J25	4161	B 6		
2270	M26	4162	D10		
2274	H19	4170	H 9		
3112	G11	4171	I 8		
3113	H12	4175	J 9		
3114	H12	4200	K19		
3133	I12	4234	I16		
3151	A 7	4235	H16		
3153	A 8	4236	H18		
3154	B 8	4241	B21		
3155	A 9	4246	D29		
3156	B11	4263	B22		
3159	B11	4280	K20		
3160	A 5	5270	I25		
3161	B 9	5280	L19		
3162	A 4	6112	G 6		
3163	D 2	6120	A 9		
3164	F 3	6121	A 9		
3165	F 3	6163	E 2		
3166	B 7	6165	H 6		
3167	C10	6166	I 6		
3168	B10	6168	B 9		
3170	D29	6172	F28		
3171	E29	6173	F28		
3172	B 4	6178	F 6		
3175	I 7	6179	L 5		
3176	H 7	6256	B23		
3177	I 7	6257	B23		
3178	H 7	6280	B20		
3180	I 2	6281	B21		
3181	J 3	7120	B 8		
3182	I 3	7121	B11		
3183	K 3	7175	H 9		
3184	J 4	7176	H 8		
3185	K 4	7177	I 8		
3186	K 3	7178	G 8		
3187	L 8	7182	J 3		
3189	J 5	7183	K 3		
3190	G 7	7186	K 2		
3191	J 5	7188	J 6		
3192	I 7	7193	M 2		
3193	M 6	7216	B15		
3194	N 6	7219	C20		
3200	I 9	7243	K16		
3201	I 9	7244	L16		
3205	L 9	7258	A24		
3206	L 9	7260	G25		
3207	M10	7261	H25		
3208	N10	7265	J25		
3209	N10	7268	K26		
3210	N 9	7270	M27		
3211	C14	7273	N27		
3215	C14	9098	B 3		
3216	B15	9102	M16		
3217	C14	9103	N18		
3218	C15	9104	K17		
3219	C14	9105	O19		
3220	D19	9110	M17		
3222	G20	9120	M25		
3224	D16	9121	N25		
3225	I25	9148	B 6		
3232	H20	9167	D 8		
3233	H20	9168	D 8		
3234	I15	9186	L25		
3235	I16	9190	K26		

Synchronization / Synchronisierung / Synchronisation

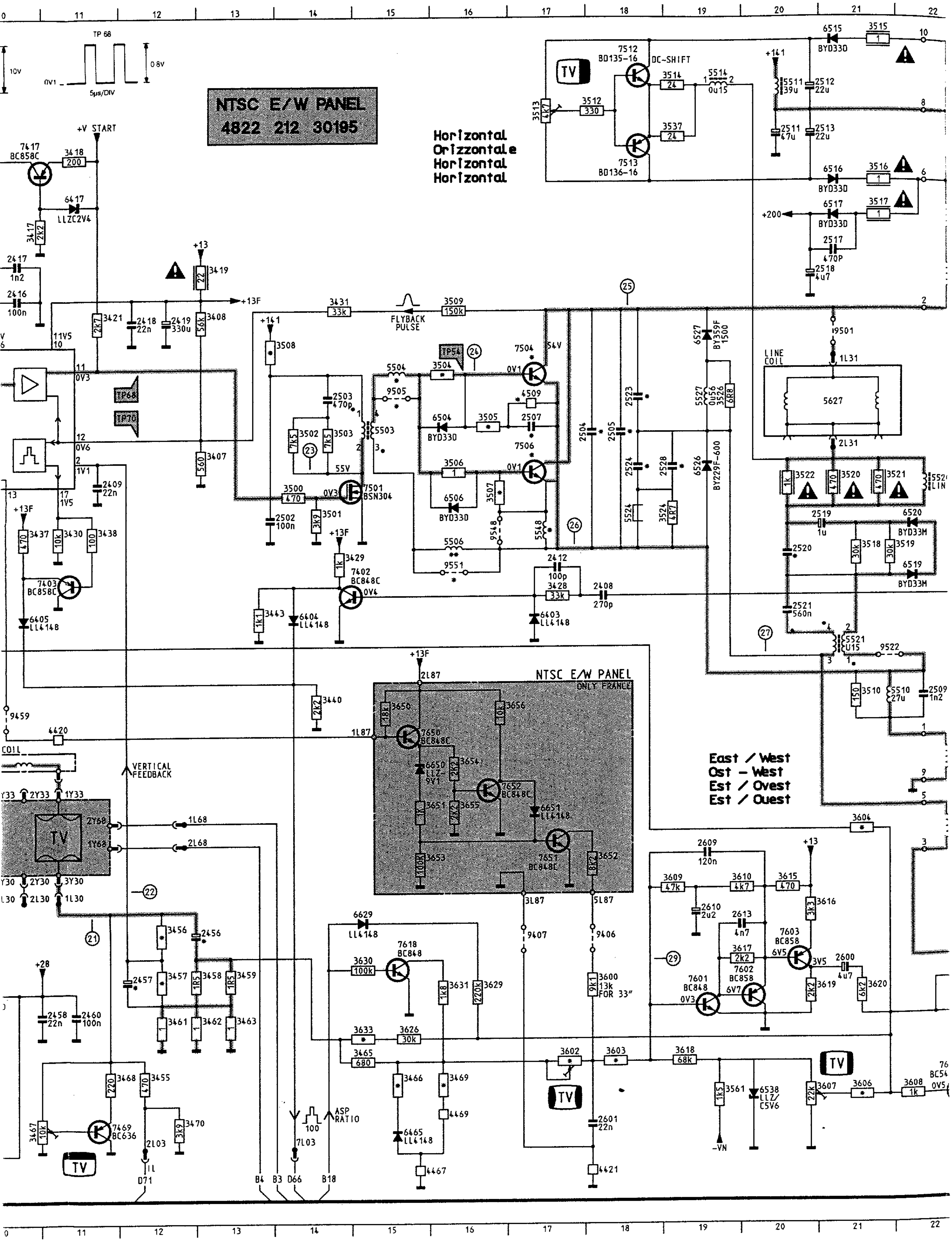

B
TP 55
22V
0V
TP 62
1V
0V3
2ms/DIV
TP 63
44V
5V
2ms/DIV
TP 64
2.3V
0V
2ms/DIV
TP 65
10V
0V
10µs/DIV
TP 68
0V1
5µs/DIV
1S03
1L03
Synchronisation
Synchronisation
Sincronizzazione
Synchronisation
+V START
7417
BC858C
3418
200
3425
120k
3410
22k
3427
470k
6417
LLZC2V4
3417
2k2
TV
A1
+141
A204
+V START
C28
8L02
+5
A2
-11
A6
+13
D80
4L03
C5100
+13F
3446
27k
7444
BC848C
9473
7445
BC848C
2404
4u7
3445
22k
3444
10k
3404
1k8
3k3 1)
2405
47n
18n 1)
3402
5k6
3403
22
2402
2u2
2403
22u
2406
1n2
3405
33k
3406
10k
2417
1n2
2416
100n
3421
2k7
2418
22n
7400
TDA2579B/N2/S1
6V8
5V6
2V9
4V3
9V
11V5
31250Hz
100Hz
TV IDENT.
6440
LL4148
6441
LL4148
3426
330
3439
16k
3441
6k2
3442
3k3
TP69
TP68
TP70
11
0V3
12
0V6
1V1
2409
22n
17
1V5
3483
56k
3484
22k
2401
47n
18
2V
7V5
4V3
-VN
2V8
3416
1M2
+13F
3437
470
3430
10k
3438
100
TP 69
3V
0V4
5µs/DIV
TP 70
2V7
0 3V
10µs/DIV
3415
47k
3414
150k
3413
100
2415
47n
7403
BC858C
6405
LL4148
+13F
3627
10k
7616
BC848
7407
BC848
3423
3424
3422
3411
2411
150n
3420
4412
4410
2410
150n
3409
3601
3632
2606
2603
3605
9459
4420
EHT INFO
D75
5L03
ASP RATIO
3628
47k
3634
47k
B18
VERTICAL DRIVE
FRAME COIL
ONLY FOR 29" SUPER FLAT 4:3
3Y33
2Y33
1Y33
N/S CORRECTION
2Y68
1Y68
VERTICAL FEEDBA
7451
BC858
2455
390p
7450
TDA3654Q
3450
4k3
3451
4k3
2450
10n
2451
1n
TP64
TP63
TP62
1Y30
2Y30
3Y30
3L30
2L30
1L30
22
21
3452
15
2459
68n
+28
6452
BYD33D
2458
22n
2460
100n
2457
28V7
2452
220u
12V1
0V4
29V
6451
BZX79/C3V6
3473
2k
3460
3468
220
470
3467
10k
7469
BC636
2L0
D71
B7
Vertical
Vertikal
Verticale
Vertical

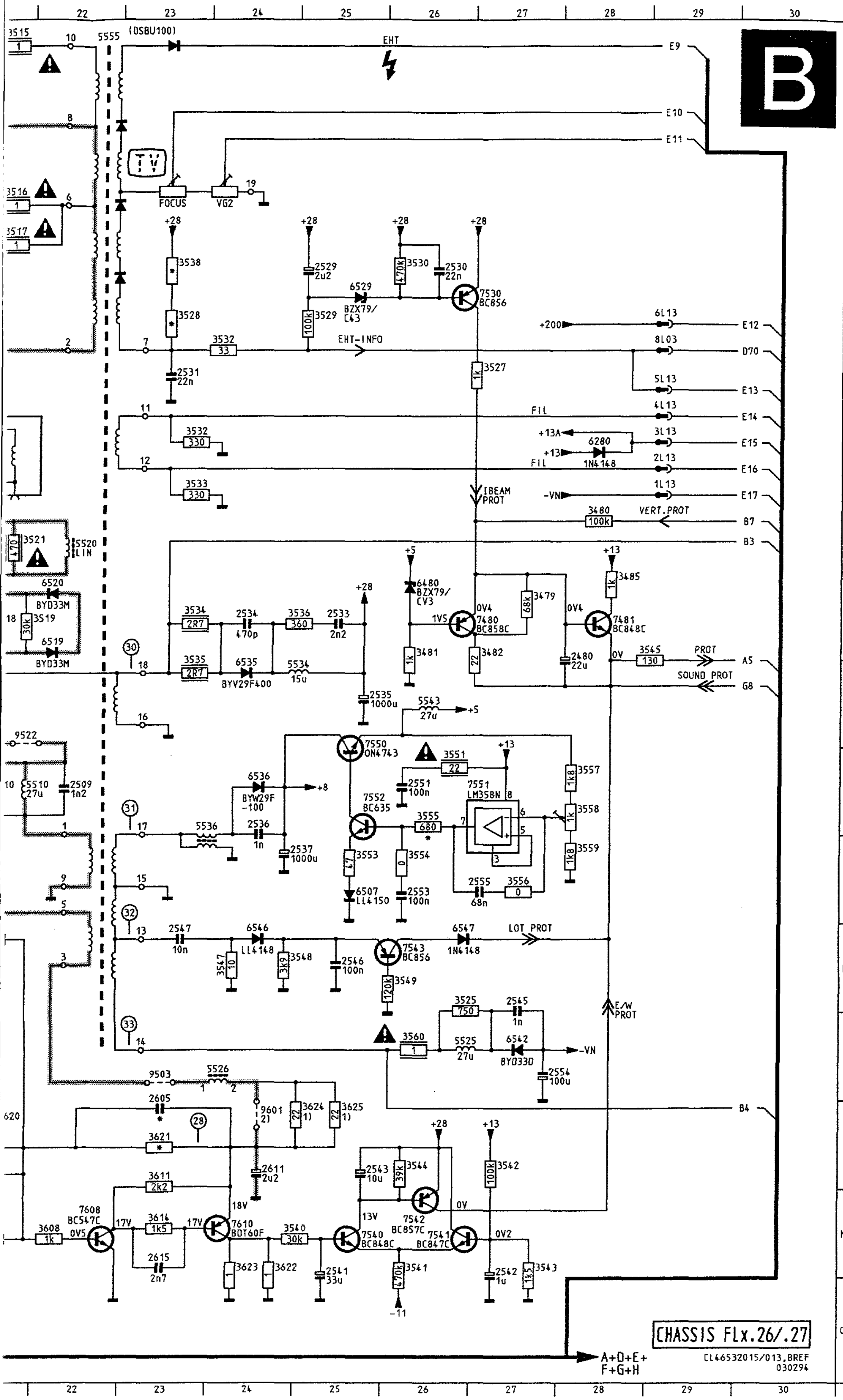
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

*	25"	28"	29"	33"
2456	470u	470u	1000u	680u
2457	1u5	1u5	1u	1u5
2504	270p	560p	–	560p
2505	270p	680p	330p	680p
2507	–	–	220n	–
2520	390n	470n	560n	470n
2523	8n2	8n2	11n	8n2
2524	27n	27n	15n	27n
2528	–	–	12n	–
2603	68n	47n	68n	100n
2605	1n5	2n7	2n7	2n2
2606	–	–	–	100n
3409	56k	510k	560k	560k
3411	100k	91k	75k	120k
3420	3M9	3M9	820k	3M9
3422	1M2	1M2	1M3	1M5
3423	820k	820k	1M1	1M
3456	120k	120k	120k	130k
3457	8k2	8k2	8k2	9k1
3460	270	270	390	270
3466	1k5	2k7	–	4k3
3469	1k	2k7	–	4k3
3404	1R2	1	1	1
3505	33	33	33	47
3506	1R2	1	1	1
3507	33	33	–	47
3508	1k8	1k8	1k8	1k5
3528	1k2	1k2	1k	1k2
3538	12k	12k	13k	12k
3601	100k	100k	100k	150k
3602	10k	10k	22k	10k
3603	15k	18k	10k	20k
3603 (FRANCE)	12k	12k	10k	15k
3604	130k	160k	120k	180k
3605	13k	13k	4k7	24k
3606	33k	33k	15k	22k
3621	–	–	160k	–
3632	100	100	100	15k
3633	240k	100k	82k	200k
4509	–	–	+	–
5504	–	–	0u82	–
5506	–	–	0u82	–
5548	–	–	+	–
7504	ON4673	ON4673	–	ON4673
7506	ON4673	ON4673	2SC4288A	ON4673
9505	+	+	–	+
9548	+	+	–	+
9551	+	+	–	+

1) ONLY FOR FLx.27
2) NOT FOR FLx.27

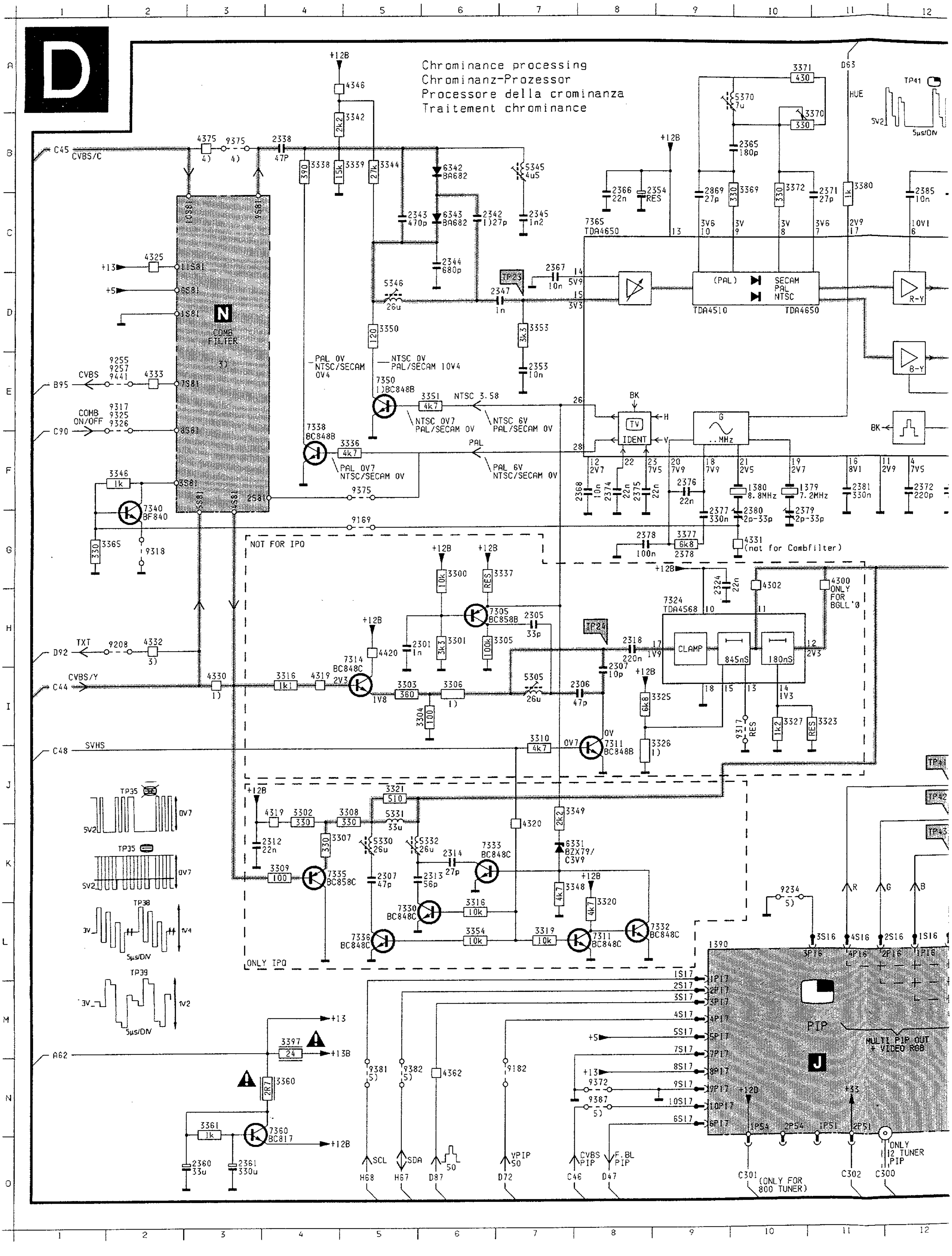
FLx.26/.27 (4:3)


NTSC E/W PANEL
4822 212 30195
Horizontal
Orizzontale
Horizontal
Horizontal
East / West
Ost - West
Est / Ovest
Est / Ouest
NTSC E/W PANEL
ONLY FRANCE
TP 68
10V
0V1
0.8V
5µs/DIV
+V START
7417 BC858C
3418 200
6417 LLZC2V4
3417 2k2
2417 1n2
2416 100n
3421 2k7
2418 22n
2419 330u
+13
3419 22
3408 56k
+13F
3407 560
TP68
TP70
11V5
0V3
0V6
1V1
1V5
2409 22n
+13F
3437 470
3430 10k
3438 100
7403 BC858C
6405 LL4148
3431 33k
FLYBACK PULSE
3509 150k
+141
3508
3500 470
0V3
7501 BSN304
3501 3k9
2502 100n
2503 470p
3502 7k5
3503 7k5
5503
55V
5504
9505
3504
TP54
7504
0V1
54V
4509
6504 BYD330
3505
2507
7506
3506 1
6506 BYD330
3507
9548
5518
5506
9551
+13F
3429 1k
7402 BC848C
0V4
3443 1k1
6404 LL4148
2412 100p
3428 33k
2408 270p
6403 LL4148
3440 2k2
9459
4420
1L87
2L87
7512 BD135-16
DC-SHIFT
3513 4k7
3512 330
3514 24
5514 0u15
3537 24
7513 BD136-16
+141
5511 39u
2512 22u
2511 47u
2513 22u
6515 BYD330
3515 1
6516 BYD330
3516 1
6517 BYD330
3517 1
+200
2517 470P
2518 4u7
2504
2505
2523
2524
2528
5524
3524 4R7
6527 BY359F 1500
5527 0u56
3526 6R8
6526 BY229F-600
9501
LINE COIL
1L31
5627
2L31
3522 1k
3520 470
3521 470
2519 1u
6520 BYD33M
2520
3518 30k
3519 30k
6519 BYD33M
2521 560n
5521 U15
9522
3510 150
5510 27u
2509 1n2
3650 18k
7650 BC848C
6650 LLZ-9V1
3654 2k2
3656 10k
7652 BC848C
6651 LL4148
3651 1k
3655 2k2
3653 100k
7651 BC848C
3652 8k2
3L87
5L87
9407
9406
3600 9k1 13k FOR 33"
2601 22n
4421
3602
3603
3604
2609 120n
3609 47k
3610 4k7
3615 470
+13
3616 3k3
2610 2u2
2613 4n7
3617 2k2
7603 BC858
6V5
3V5
2600 4u7
7602 BC858
6V7
7601 BC848
0V3
3619 2k2
3620 6k2
3618 68k
3561 1k5
6538 LLZ/C5V6
-VN
3607 22k
3606
3608 1k
COIL
VERTICAL FEEDBACK
2Y33 1Y33
2Y68
1Y68
1L68
2L68
2Y30 3Y30
2L30 1L30
3456
2456
2457
3457
3458 1R5
3459 1R5
3461 1
3462 1
3463 1
+28
2458 22n
2460 100n
3468 220
3455 470
3467 10k
7469 BC636
3470 3k9
2L03
1L
D71
6629 LL4148
7618 BC848
3630 100k
3631 1k8
3629 220k
3633
3626 30k
3465 680
3466
3469
4469
6465 LL4148
4467
100
7L03
ASP RATIO
B4
B3
D66
B18
TV
10 11 12 13 14 15 16 17 18 19 20 21 22

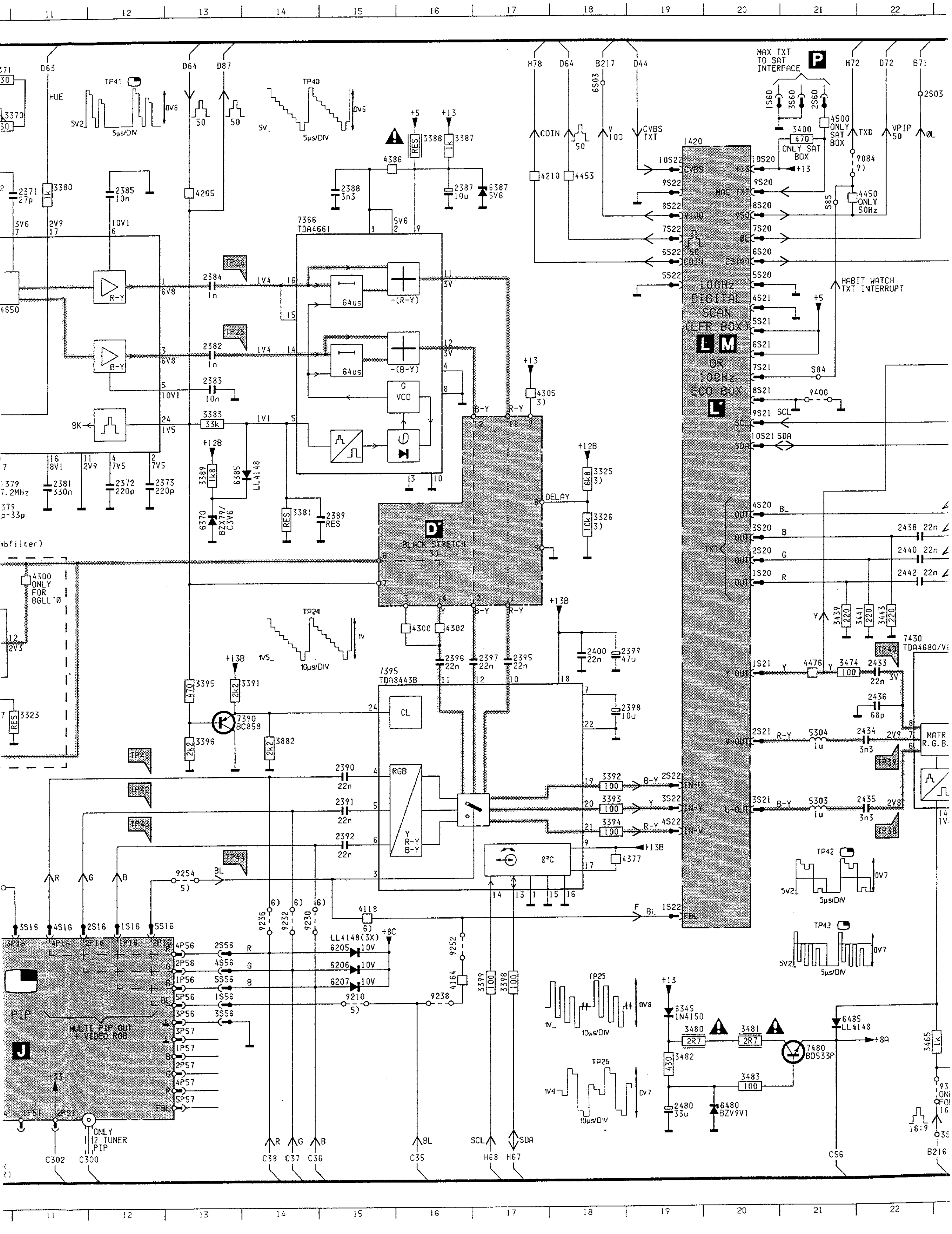

B
22
23
24
25
26
27
28
29
30
3515
5555
(DSBU100)
EHT
E9
E10
E11
3516
3517
FOCUS
VG2
19
+28
3538
3528
2529
2u2
6529
BZX79/
C43
3529
100k
470k
3530
2530
22n
7530
BC856
3532
33
EHT-INFO
2531
22n
3527
1k
+200
6L13
8L03
5L13
4L13
3L13
2L13
1L13
E12
D70
E13
E14
E15
E16
E17
FIL
+13A
+13
6280
1N4148
3532
330
3533
330
IBEAM
PROT
-VN
3480
100k
VERT.PROT
B7
B3
3521
470
5520
LIN
6520
BYD33M
3519
30k
6519
BYD33M
+5
6480
BZX79/
CV3
+28
3534
2R7
2534
470p
3536
360
2533
2n2
3535
2R7
6535
BYV29F400
5534
15u
2535
1000u
0V4
1V5
7480
BC858C
3479
68k
7481
BC848C
3485
1k
3481
1k
3482
22
2480
22u
0V
3545
130
PROT
A5
SOUND PROT
G8
5543
27u
+5
9522
7550
ON4743
3551
22
+13
3557
1k8
5510
27u
2509
1n2
6536
BYW29F
-100
+8
2551
100n
7551
LM358N
7552
BC635
3555
680
3558
1k
3559
1k8
5536
2536
1n
2537
1000u
3553
47
3554
0
6507
LL4150
2553
100n
2555
68n
3556
0
2547
10n
6546
LL4148
6547
1N4148
LOT PROT
7543
BC856
3547
10
3548
3k9
2546
100n
3549
120k
3525
750
2545
1n
E/W
PROT
3560
1
5525
27u
6542
BYD33D
-VN
2554
100u
B4
9503
5526
9601
2)
3624
22
1)
3625
22
1)
2605
620
3621
2611
2u2
+28
+13
2543
10u
3544
39k
3542
100k
3611
2k2
18V
0V
7608
BC547C
17V
3614
1k5
17V
7610
BDT60F
3540
30k
13V
7542
BC857C
7540
BC848C
7541
BC847C
0V2
3608
1k
0V5
2615
2n7
3623
1
3622
1
2541
33u
3541
470k
-11
2542
1u
3543
1k5
A+D+E+
F+G+H
CHASSIS FLx.26/.27
CL46532015/013.BREF
030294

2401	F 6	3458	L13	4410	H 7
2402	D 6	3459	L13	4412	H 7
2403	D 8	3460	N10	4420	I11
2404	C 6	3461	M12	4421	O18
2405	D 6	3462	M13	4467	O15
2406	C 9	3463	M13	4469	N16
2408	H18	3465	N15	4509	E17
2409	F11	3466	N15	5503	F15
2410	I 7	3467	N10	5504	E15
2411	H 8	3468	N11	5506	G16
2412	G17	3469	N16	5510	I21
2415	G 9	3470	N12	5511	A20
2416	D10	3473	M10	5514	A19
2417	C10	3479	G27	5520	F22
2418	D12	3480	F28	5521	H21
2419	D12	3481	G26	5524	G18
2450	L 5	3482	G27	5525	L26
2451	L 5	3483	F 5	5526	L24
2452	M10	3484	F 5	5527	E19
2455	K 6	3485	F28	5534	H25
2456	L13	3500	F14	5536	I23
2457	M12	3501	G14	5543	H26
2458	M11	3502	F14	5548	G17
2459	L10	3503	F14	5555	A22
2460	M11	3504	E16	5627	E21
2480	G28	3505	E16	6280	E28
2502	G14	3506	F16	6403	H17
2503	E14	3507	F16	6404	H14
2504	F18	3508	D14	6405	H10
2505	F18	3509	D16	6417	C11
2507	E17	3510	I21	6440	E 4
2509	I22	3512	A18	6441	E 4
2511	B20	3513	B17	6451	N 9
2512	A20	3514	A19	6452	M10
2513	B20	3515	A21	6465	O15
2517	C21	3516	B21	6480	G26
2518	D20	3517	C21	6504	E16
2519	G21	3518	G21	6506	F16
2520	G20	3519	G21	6507	J25
2521	H20	3520	F21	6515	A21
2523	E18	3521	F21	6516	B21
2524	F18	3522	F20	6517	C21
2528	F19	3524	G19	6519	G22
2529	C25	3525	K26	6520	G22
2530	C26	3526	E19	6526	F19
2531	D23	3527	D27	6527	D19
2533	G25	3528	D23	6529	C25
2534	G24	3529	D25	6535	H24
2535	H25	3530	C26	6536	I24
2536	I24	3532	E23	6538	N20
2537	J24	3532	D24	6542	L27
2541	N25	3533	F23	6546	K24
2542	N27	3534	G23	6547	K26
2543	M25	3535	H23	6629	L15
2545	K27	3536	G25	6650	J15
2546	K25	3537	B19	6651	J17
2547	K23	3538	C23	7400	D 6
2551	I26	3540	N25	7402	G14
2553	J26	3541	N26	7403	G11
2554	L27	3542	M27	7407	H 6
2555	J27	3543	N27	7417	B10
2600	L21	3544	M26	7444	C 5
2601	N18	3545	G29	7445	D 4
2603	I 9	3547	K24	7450	K 6
2605	M23	3548	K24	7451	K 5
2606	I10	3549	K26	7469	N11
2609	K19	3551	I26	7480	G27
2610	L19	3553	J25	7481	G28
2611	M24	3554	J26	7501	F15
2613	L20	3555	I26	7504	E17
2615	N23	3556	J27	7506	F17
3402	D 7	3557	I28	7512	A18
3403	D 8	3558	I28	7513	B18
3404	D 5	3559	J28	7530	C27
3405	C 9	3560	L26	7540	N25
3406	D 9	3561	N19	7541	N26
3407	F13	3600	L18	7542	N26
3408	D13	3601	H 9	7543	K26
3409	H 7	3602	N17	7550	I25
3410	B10	3603	N18	7551	I26
3411	H 7	3604	K21	7552	I25
3413	G 9	3605	I10	7601	M19
3414	G 6	3606	N21	7602	M20
3415	G 5	3607	N20	7603	L20
3416	G 9	3608	N22	7608	N22
3417	C10	3609	K19	7610	N24
3418	B11	3610	K20	7616	H 5
3419	C13	3611	M23	7618	L15
3420	H 9	3614	N23	7650	I15
3421	D11	3615	K20	7651	K17
3422	H 7	3616	L20	7652	J16
3423	G 7	3617	L20	9406	L18
3424	G 8	3618	N19	9407	L17
3425	B 9	3619	M20	9459	I10
3426	E 4	3620	M21	9473	C 4
3427	C 9	3621	M23	9501	D21
3428	H17	3622	N24	9503	L23
3429	G14	3623	N24	9505	E15
3430	G11	3624	M25	9522	H21
3431	D14	3625	M25	9548	G16
3437	G10	3626	M15	9551	G16
3438	G11	3627	H 5	9601	M24
3439	E 4	3628	H 4		
3440	I14	3629	M16		
3441	E 5	3630	L15		
3442	E 5	3631	M16		
3443	H13	3632	I 9		
3444	D 4	3633	M15		
3445	D 3	3634	H 5		
3446	C 4	3650	I15		
3450	K 5	3651	J15		
3451	K 5	3652	K18		
3452	L10	3653	K15		
3455	N12	3654	J16		
3456	L12	3655	J16		
3457	L12	3656	I16		

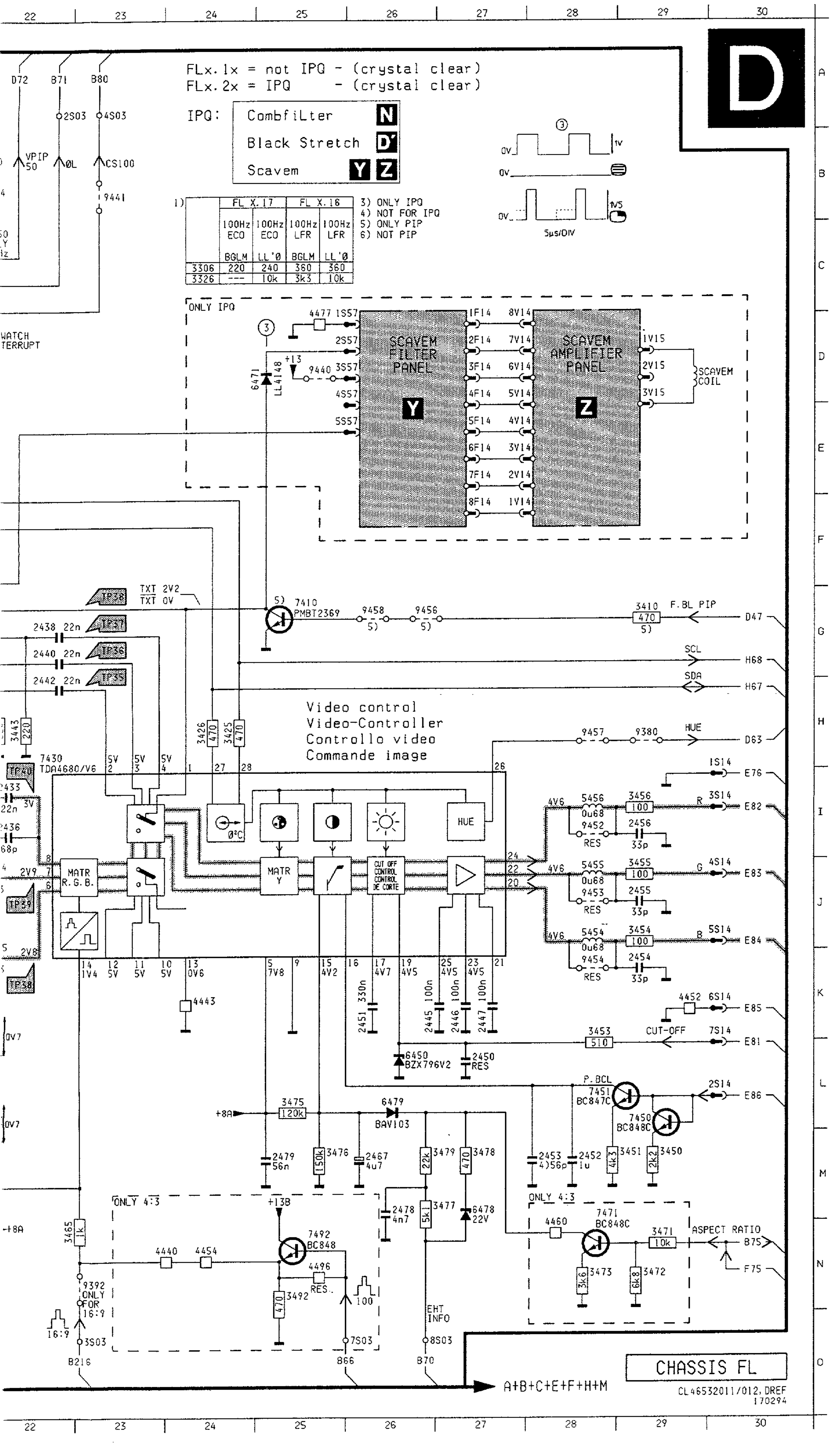
Video processing / Video Verarbeitung /


D
Chrominance processing
Chrominanz-Prozessor
Processore della crominanza
Traitement chrominance
C45 CVBS/C
B95 CVBS
C90 COMB ON/OFF
D92 TXT
C44 CVBS/Y
C48 SVHS
A62
N
COMB FILTER
7365 TDA4650
TDA4510
(PAL)
SECAM PAL NTSC
R-Y
B-Y
TV IDENT
..MHz
BK
HUE
D63
1380 8.8MHz
1379 7.2MHz
4331 (not for Combfilter)
7324 TDA4568
CLAMP
845nS
180nS
4300 ONLY FOR BGLL'0
NOT FOR IPQ
ONLY IPQ
7350 BC848B
7338 BC848B
7340 BF840
7314 BC848C
7305 BC858B
7311 BC848B
7335 BC858C
7333 BC848C
7330 BC848C
7336 BC848C
7332 BC848C
7360 BC817
6342 BA682
6343 BA682
6331 BZX79/C3V9
PAL 0V NTSC/SECAM 0V4
NTSC 0V PAL/SECAM 10V4
NTSC 3.58
NTSC 0V7 PAL/SECAM 0V
NTSC 6V PAL/SECAM 0V
PAL 0V7 NTSC/SECAM 0V
PAL 6V NTSC/SECAM 0V
TP23
TP24
TP35
TP38
TP39
TP41
5μs/DIV
1390
PIP
J
MULTI PIP OUT + VIDEO RGB
H68 SCL
H67 SDA
D87
D72 VPIP
C46 CVBS PIP
D47 F.BL PIP
C301 (ONLY FOR 800 TUNER)
C302
C300 ONLY I2 TUNER PIP
+12B
+13
+13B
+5
R
G
B
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J K L M N O

9 Traitement vidéo



11
12
13
14
15
16
17
18
19
20
21
22
D63
HUE
D64
D87
H78
D64
B217
D44
H72
D72
B71
TP41
TP40
5V2
5µs/DIV
0V6
SV_
COIN
CVBS TXT
MAX TXT TO SAT INTERFACE
P
6S03
2S03
1S60
3S60
2S60
4500 ONLY SAT BOX
3400 470 ONLY SAT BOX
TXD
VPIP
ØL
9084
S85
4450 ONLY 50Hz
+5
+13
3388 RES
3387 1k
4386
2388 3n3
2387 10u
6387 5V6
7366 TDA4661
5V6
2371 27p
3380 1k
2385 10n
4205
3V6
2V9
10V1
1420
10S22 CVBS
9S22
8S22 V100
7S22
6S22 COIN
5S22
10S20
9S20 MAC TXT
8S20 VSO
7S20 ØL
6S20 CS100
5S20
4S21
5S21
6S21
7S21
8S21
9S21 SCL
10S21 SDA
4210
4453
100Hz DIGITAL SCAN (LFR BOX)
L M
OR
100Hz ECO BOX
L'
HABIT WATCH TXT INTERRUPT
S84
9400
TP26
TP25
2384 1n
1V4
2382 1n
6V8
R-Y
B-Y
64us
-(R-Y)
-(B-Y)
G VCO
2383 10n
3383 33k
1V1
1V5
BK
4850
+13
4305
+12B
3325 6k8
3326 10k
DELAY
D' BLACK STRETCH 3)
3389 1k8
6385 LL4148
6370 BZX79/C3V6
3381 RES
2389 RES
2381 330n
2372 220p
2373 220p
8V1
7V5
379 7.2MHz
379 p-33p
mbfilter)
4300 ONLY FOR BGLL'0
4300
4302
TP24
1V5_
10µs/DIV
1V
+13B
2400 22n
2399 47u
2396 22n
2397 22n
2395 22n
7395 TDA8443B
CL
+13B
3395 470
3391 2k2
7390 BC858
3396 2k2
3882 2k2
3323 RES
2V3
2398 10u
TP41
TP42
TP43
TP44
2390 22n
2391 22n
2392 22n
RGB
Y R-Y B-Y
3392 100 B-Y 2S22 IN-U
3393 100 Y 3S22 IN-Y
3394 100 R-Y 4S22 IN-V
0°C
4377
9254 5)
BL
4118 6)
F BL 1S22 FBL
4S20 OUT BL
3S20 OUT B
2S20 OUT G
1S20 OUT R
TXT
2438 22n
2440 22n
2442 22n
3439 220
3441 220
3443 220
7430 TDA4680/V
TP40
1S21 Y-OUT Y
4476
3474 100
2433 22n
3V
2436 68p
2S21 V-OUT R-Y
5304 1u
2434 3n3
2V9
MATR R.G.B.
TP39
3S21 U-OUT B-Y
5303 1u
2435 3n3
2V8
TP38
TP42
0V7
TP43
3S16
4S16
2S16
1S16
5S16
3P16
4P16
2P16
1P16
2P16
PIP
J
MULTI PIP OUT + VIDEO RGB
4P56
2P56
1P56
5P56
3P56
3P57
1P57
2P57
4P57
5P57
FBL
2S56
4S56
5S56
1S56
3S56
R
G
B
9236 6)
9232 6)
9230 6)
LL4148(3X)
+8C
6205 10V
6206 10V
6207 10V
9210 5)
9238
9252
4164
3399 100
3398 100
+33
1P51
2P51
ONLY 12 TUNER PIP
C302
C300
C38
C37
C36
C35
H68
H67
SCL
SDA
TP25
0V8
1V_
10µs/DIV
TP26
1V4
0V7
+13
6345 1N4150
3480 2R7
3481 2R7
3482 430
7480 BD533P
3483 100
2480 33u
6480 BZV9V1
6485 LL4148
+8A
3465 1k
C56
16:9
B216


22
23
24
25
26
27
28
29
30
D
D72
B71
B80
2S03
4S03
VPIP 50
0L
CS100
9441
WATCH
TERRUPT
ONLY IPQ
4477 1S57
2S57
3S57
4S57
5S57
③
+13
9440
6471
LL4148
SCAVEM FILTER PANEL
Y
1F14
2F14
3F14
4F14
5F14
6F14
7F14
8F14
8V14
7V14
6V14
5V14
4V14
3V14
2V14
1V14
SCAVEM AMPLIFIER PANEL
Z
1V15
2V15
3V15
SCAVEM COIL
0V
1V
5µs/DIV
1V5
TXT 2V2
TXT 0V
TP38
TP37
TP36
TP35
2438 22n
2440 22n
2442 22n
7410
PMBT2369
9458
9456
3410
470
F.BL PIP
D47
SCL
H68
SDA
H67
3443 220
3426 470
3425 470
Video control
Video-Controller
Controllo video
Commande image
9457
9380
HUE
D63
7430
TDA4680/V6
TP40
2433
22n
2436
68p
1S14
E76
4V6
5456 0u68
3456 100
9452 RES
2456 33p
R
3S14
E82
MATR R.G.B.
MATR Y
CUT OFF CONTROL CONTROL DE CORTE
5455 0u68
3455 100
9453 RES
2455 33p
G
4S14
E83
5454 0u68
3454 100
9454 RES
2454 33p
B
5S14
E84
2V9
2V8
TP39
TP38
0V7
4443
2451 330n
2445 100n
2446 100n
2447 100n
4452
6S14
E85
3453 510
CUT-OFF
7S14
E81
6450 BZX79C2V2
2450 RES
P.BCL
7451 BC847C
7450 BC848C
2S14
E86
+8A
3475 120k
6479 BAV103
2479 56n
3476 150k
2467 4u7
3479 22k
3478 470
2453 4)56p
2452 1u
3451 4k3
3450 2k2
ONLY 4:3
+13B
7492 BC848
4440
4454
4496 RES.
3492 470
100
2478 4n7
3477 5k1
6478 22V
7471 BC848C
4460
3471 10k
ASPECT RATIO
B75
F75
3473 3k6
3472 6k8
3465 1k
9392 ONLY FOR 16:9
16:9
3S03
B216
7S03
B66
EHT INFO
8S03
B70
A+B+C+E+F+H+M
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

FLx.1x = not IPQ - (crystal clear)
FLx.2x = IPQ - (crystal clear)

IPQ: Combfilter **N**
Black Stretch **D'**
Scavem **Y** **Z**

1)

	FL X.17		FL X.16	
	100Hz ECO BGLM	100Hz ECO LL'0	100Hz LFR BGLM	100Hz LFR LL'0
3306	220	240	360	360
3326	---	10k	3k3	10k

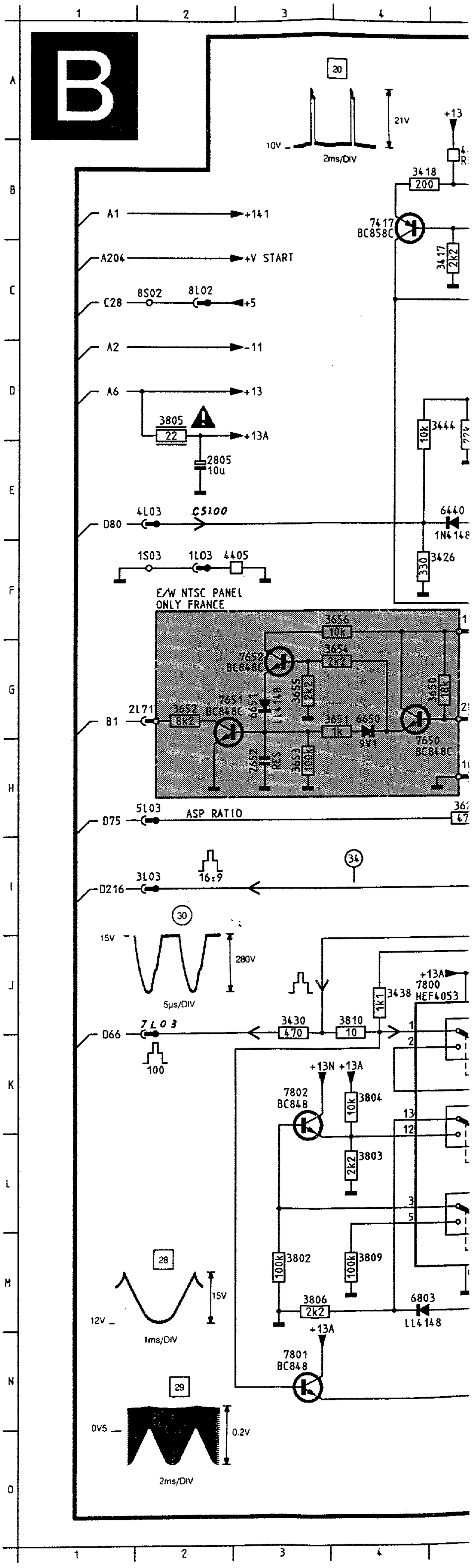
3) ONLY IPQ
4) NOT FOR IPQ
5) ONLY PIP
6) NOT PIP

CHASSIS FL

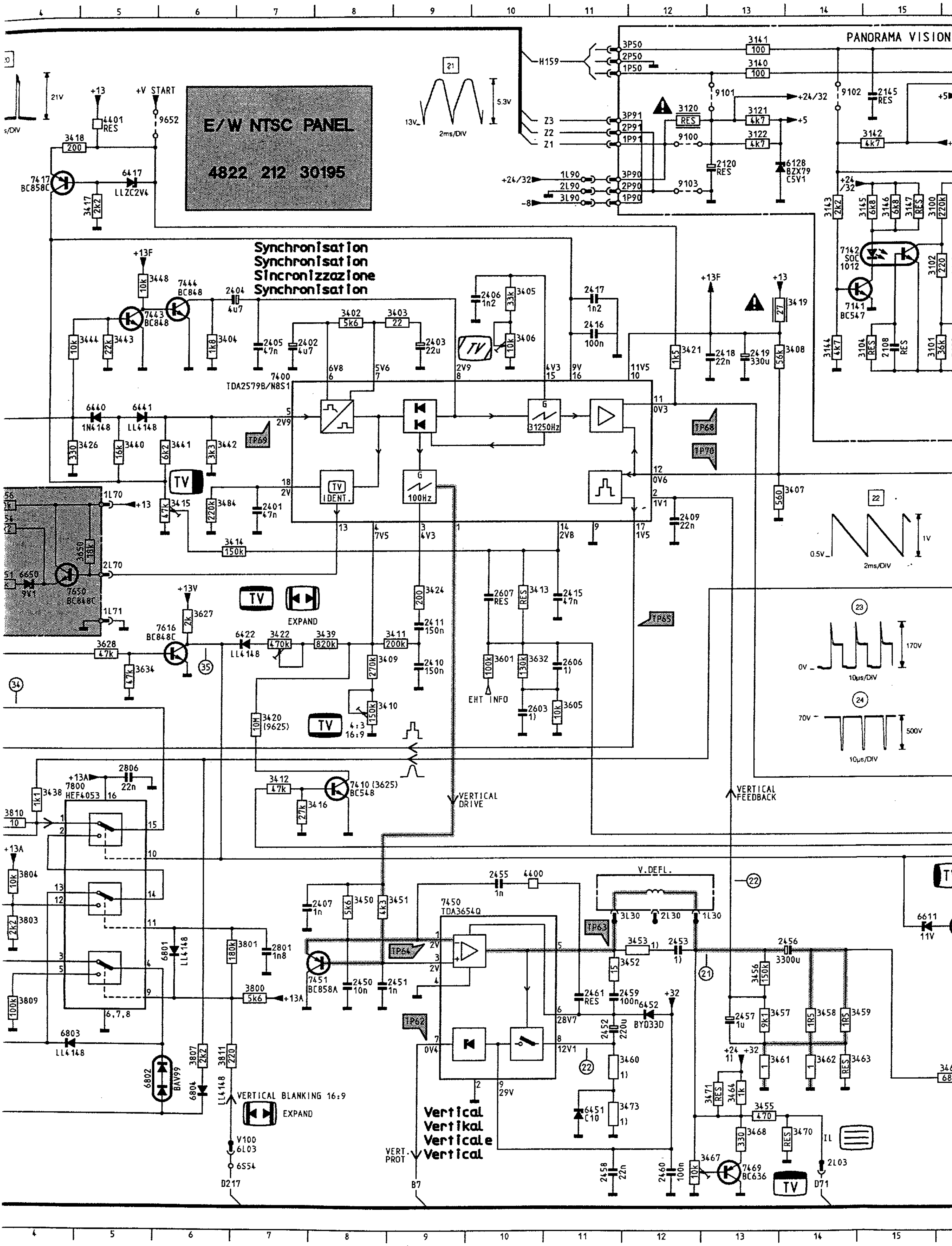
CL 46532011/012.DREF
170294

1379	F10	3370	B10	7332	L 8
1380	F10	3371	A10	7333	K 6
1390	L 9	3372	B10	7335	K 4
1420	B19	3377	G 9	7336	L 5
2301	H 5	3380	B11	7338	F 4
2305	H 7	3381	G14	7340	G 2
2306	I 8	3383	E13	7350	E 5
2307	I 8	3387	B16	7360	N 4
2307	K 5	3388	B16	7365	C 8
2312	K 3	3389	F13	7366	C14
2313	K 6	3391	I13	7390	I13
2314	K 6	3392	J18	7395	I15
2318	H 8	3393	J18	7410	G25
2324	H 9	3394	K18	7430	H22
2338	B 4	3395	I13	7450	L29
2342	C 6	3396	J13	7451	L28
2343	C 5	3397	M 4	7471	M28
2344	C 6	3398	M17	7480	N21
2345	C 7	3399	M17	7492	N25
2347	D 7	3400	B21	9084	B21
2353	E 7	3410	G29	9169	G 5
2354	C 8	3425	H24	9182	N 7
2360	O 3	3426	H24	9208	H 2
2361	O 3	3439	H21	9210	M15
2365	B10	3441	H22	9230	L14
2366	C 8	3443	H22	9232	L14
2367	D 7	3450	M29	9234	K10
2368	F 8	3451	M29	9236	L14
2371	C11	3453	K28	9238	M16
2372	F12	3454	J29	9252	L16
2373	F12	3455	J29	9254	K13
2375	F 8	3456	I29	9255	E 2
2376	F 9	3465	N22	9317	E 2
2377	G 9	3471	N29	9317	I10
2378	G 8	3472	N29	9318	G 2
2378	G 9	3473	N28	9372	N 8
2379	G10	3474	I21	9375	B 3
2380	G10	3475	L25	9375	F 5
2381	F11	3476	M25	9380	H29
2382	E13	3477	M26	9381	N 5
2383	E13	3478	M27	9382	N 5
2384	D13	3479	M26	9387	N 8
2385	C12	3480	M19	9392	N23
2387	C16	3481	M20	9400	E21
2388	C15	3482	N19	9440	D25
2389	G15	3483	N20	9441	B23
2390	J15	3492	N25	9452	I28
2391	J15	3882	J14	9453	J28
2392	K15	4118	L15	9454	K28
2395	I17	4164	M16	9456	G26
2396	I16	4205	C13	9457	H28
2397	I17	4210	B17	9458	G26
2398	I18	4300	H11		
2399	I18	4300	H16		
2400	I18	4302	H10		
2433	I22	4302	H16		
2434	J22	4305	E17		
2435	J22	4319	I 4		
2436	I22	4319	J 4		
2438	G22	4320	K 7		
2440	G22	4325	C 2		
2442	H22	4330	I 3		
2445	K26	4331	G10		
2446	K27	4332	H 2		
2447	K27	4333	E 2		
2450	L27	4346	A 5		
2451	K26	4362	N 6		
2452	M28	4375	B 3		
2453	M28	4377	K18		
2454	K29	4386	B15		
2455	J29	4420	H 5		
2456	I29	4440	N24		
2467	M26	4443	K24		
2478	M26	4450	C22		
2479	M25	4452	K29		
2480	N19	4453	B18		
2869	C 9	4454	N24		
3300	G 6	4460	N28		
3301	H 6	4476	I21		
3302	J 4	4477	D25		
3303	I 5	4496	N25		
3304	I 6	4500	B21		
3305	H 6	5303	K21		
3306	I 6	5304	J21		
3307	K 4	5305	I 7		
3308	J 5	5330	K 5		
3309	K 4	5331	J 5		
3310	I 7	5332	K 6		
3316	I 4	5345	B 7		
3316	L 6	5346	D 5		
3319	L 7	5370	A10		
3320	K 8	5454	J28		
3321	J 5	5455	J28		
3323	I11	5456	I28		
3325	F18	6205	L15		
3325	I 8	6206	M15		
3326	G18	6207	M15		
3326	I 8	6331	K 7		
3327	I10	6342	B 6		
3336	F 5	6343	C 6		
3337	G 6	6345	M19		
3338	B 4	6370	G13		
3339	B 5	6385	F13		
3342	B 5	6387	C17		
3344	B 5	6450	L26		
3346	F 2	6471	D25		
3348	K 7	6478	M27		
3349	J 7	6479	L26		
3350	D 5	6480	N20		
3351	E 6	6485	M21		
3353	D 7	7305	H 6		
3354	L 6	7311	J 8		
3360	N 4	7311	L 8		
3361	N 3	7314	H 5		
3365	G 1	7324	H 9		
3369	B10	7330	L 5		

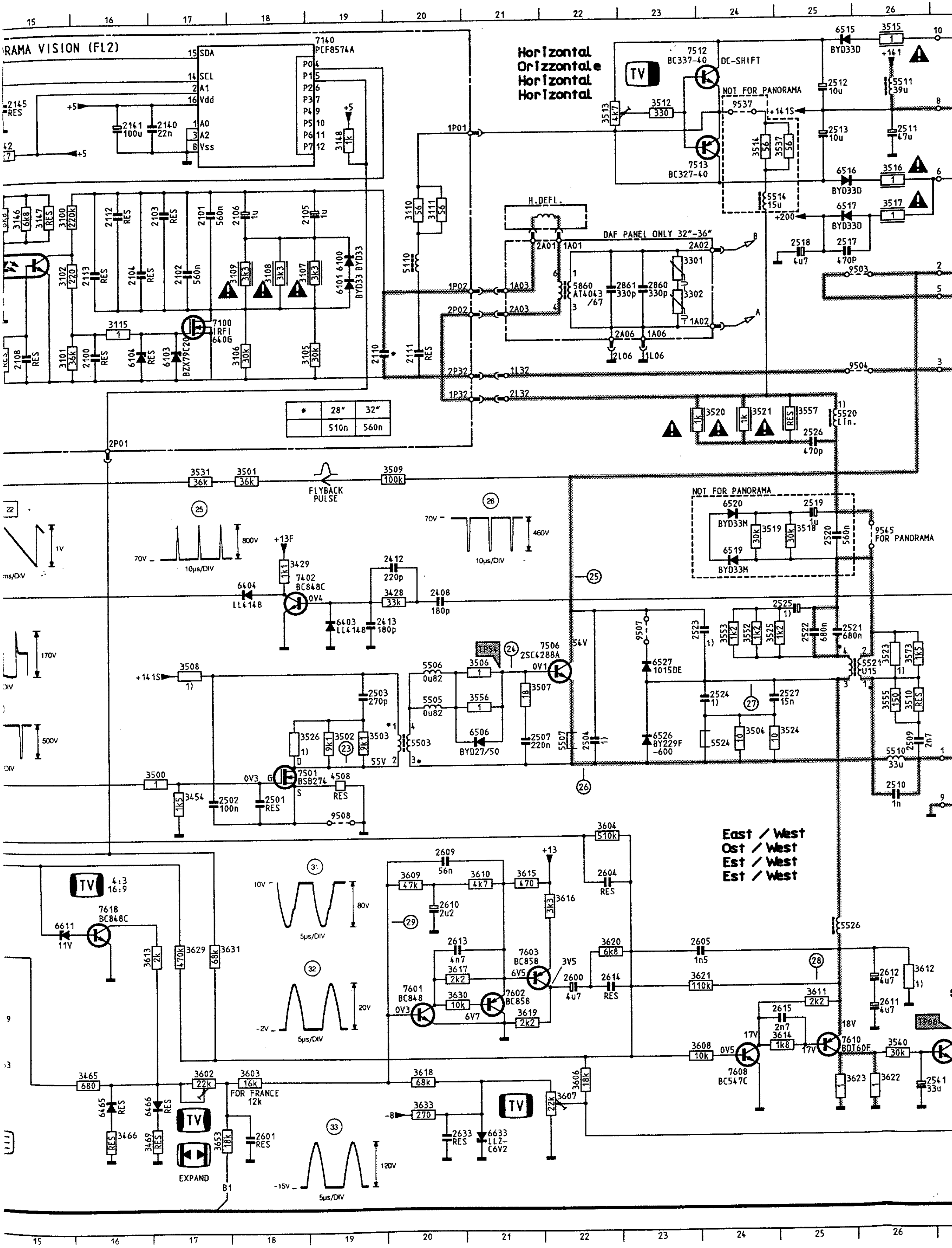
Synchro


B
1
2
3
4
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
20
21V
10V
2ms/DIV
+13
3418
200
7417
BC858C
3417
2k2
A1
+141
A204
+V START
C28
8S02
8L02
+5
A2
-11
A6
+13
3805
22
+13A
2805
10u
10k
3444
D80
4L03
C5100
6440
1N4148
1S03
1L03
4405
330
3426
E/W NTSC PANEL
ONLY FRANCE
3656
10k
3654
2k2
7652
BC848C
6651
LL4148
3655
2k2
3650
18k
B1
2L71
3652
8k2
7651
BC848C
3651
1k
6650
9V1
7650
BC848C
2652
RES
3653
100k
D75
5L03
ASP RATIO
D216
3L03
16:9
34
30
15V
280V
5µs/DIV
3438
1k1
+13A
7800
HEF4053
D66
7L03
3430
470
3810
10
100
+13N
+13A
7802
BC848
3804
10k
3803
2k2
28
15V
12V
1ms/DIV
3802
100k
3809
100k
3806
2k2
6803
LL4148
+13A
7801
BC848
29
0V5
0.2V
2ms/DIV

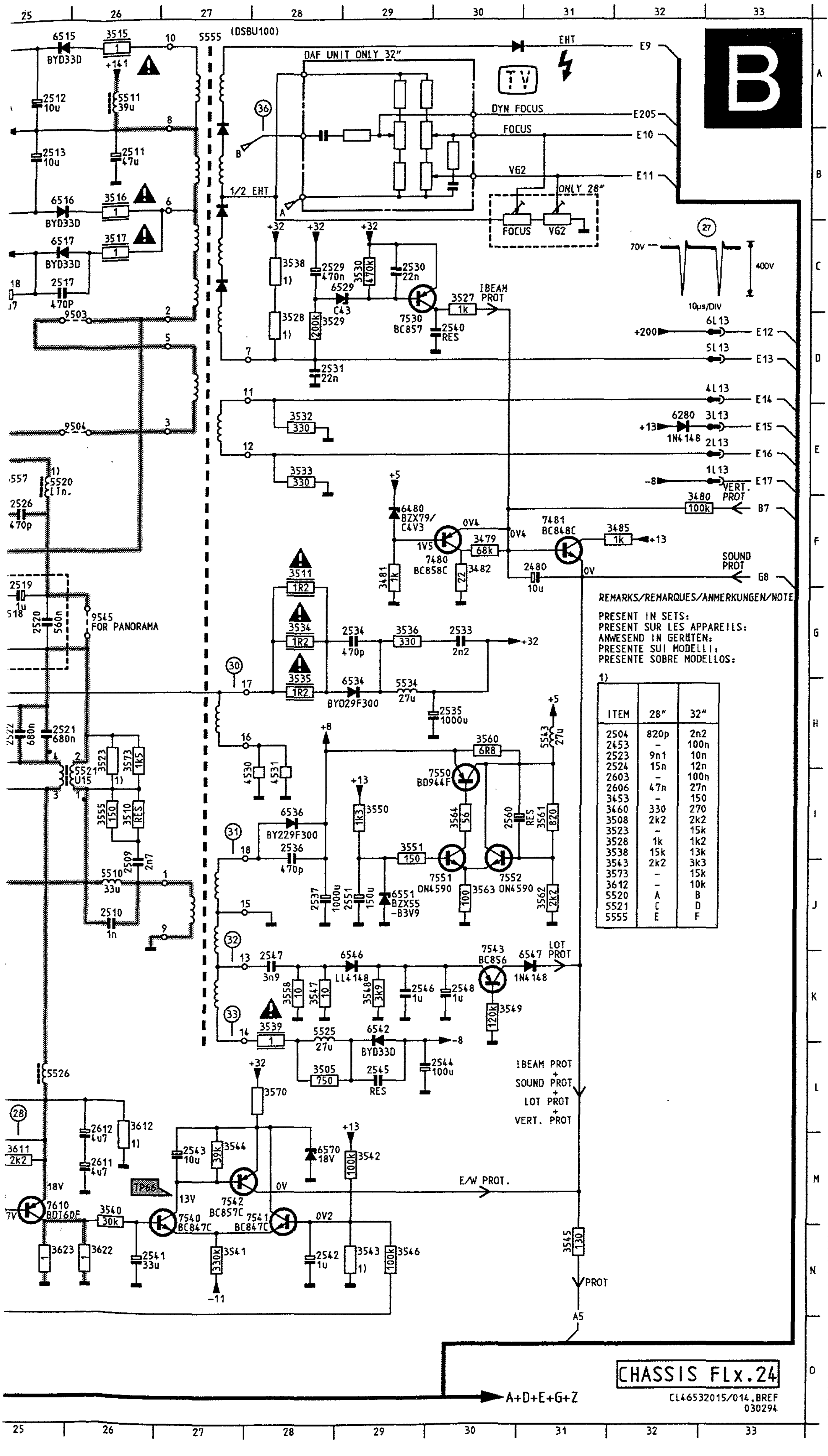
Synchronization / Synchronisierung / Synchronisation


4
5
6
7
8
9
10
11
12
13
14
15
21V
s/DIV
+13
+V START
9652
4401
RES
3418
200
7417
BC858C
6417
LLZC2V4
3417
2k2
E/W NTSC PANEL
4822 212 30195
21
5.3V
13V
2ms/DIV
H159
3P50
2P50
1P50
3141
100
3140
100
PANORAMA VISION
9101
+24/32
9102
2145
RES
+5
Z3
Z2
Z1
3P91
2P91
1P91
3120
RES
3121
4k7
3122
4k7
9100
3142
4k7
2120
RES
6128
BZX79
C5V1
+24/32
1L90
2L90
3L90
3P90
2P90
1P90
9103
-8
+24
/32
3143
2k2
3145
6k8
3146
6k8
3147
RES
3100
220K
Synchronisation
Synchronisation
Sincronizzazione
Synchronisation
+13F
3448
10k
7444
BC848
2404
4u7
7443
BC848
3444
10k
3443
22k
3404
1k8
2405
47n
2402
4u7
3402
5k6
3403
22
2403
22u
2406
1n2
3405
33k
3406
10k
2417
1n2
2416
100n
+13F
+13
3419
27
3421
1k5
2418
22n
2419
330u
3408
56k
7142
SOC
1012
7141
BC547
3102
220
3144
4k7
3104
RES
2108
RES
3101
36K
7400
TDA2579B/N8S1
6V8
6
5V6
7
2V9
8
4V3
15
9V
16
11V5
10
11
0V3
TP68
TP70
6440
1N4148
6441
LL4148
5
2V9
3426
330
3440
16k
3441
6k2
3442
3k3
TP69
31250Hz
TV
IDENT.
100Hz
18
2V
12
0V6
2
1V1
3407
560
22
0.5V
1V
2ms/DIV
56
54
52
51
6650
9V1
7650
BC848C
3650
10k
1L70
+13
2L70
1L71
TV
3415
47k
3484
220k
2401
47n
3414
150k
13
4
7V5
3
4V3
1
14
2V8
9
17
1V5
2409
22n
+13V
3627
2k
TV
EXPAND
3424
200
2411
150n
2607
RES
3413
RES
2415
47n
TP65
23
170V
0V
10µs/DIV
7616
BC848C
3628
47k
3634
47k
35
34
6422
LL4148
3422
470k
3439
820k
3411
200k
3409
270k
2410
150n
3601
100k
3632
130k
2606
1)
3605
10k
2603
1)
EHT INFO
24
70V
500V
10µs/DIV
3420
10M
(9625)
TV
3410
150k
4:3
16:9
13A
7800
HEF4053
16
2806
22n
3438
1k1
3412
47k
7410 (3625)
BC548
3416
27k
VERTICAL
DRIVE
VERTICAL
FEEDBACK
3810
10
1
2
15
+13A
3804
10k
10
13
12
14
3803
2k2
11
3
5
4
9
6,7,8
3809
100k
6801
LL4148
3801
180k
2801
1n8
3800
5k6
+13A
6803
LL4148
6802
BAV99
3807
2k2
6804
3811
220
LL4148
VERTICAL BLANKING 16:9
EXPAND
V100
6L03
6S54
D217
2407
1n
3450
5k6
3451
4k3
2455
1n
4400
V. DEFL.
22
7450
TDA3654Q
TP64
7451
BC858A
2450
10n
2451
1n
3L30
2L30
1L30
TP63
3453
1)
2453
1)
2456
3300u
3452
15
21
3456
150k
2461
RES
2459
100n
6452
BYD33D
+32
28V7
2452
220u
2457
1u
3457
9k1
3458
1R5
3459
1R5
6611
11V
TP62
0V4
7
8
12V1
22
3460
1)
+24
+32
1)
3461
1
3462
1
3463
RES
346
68
2
29V
6451
C10
3473
1)
3471
RES
3464
1k
3455
470
3468
330
3470
RES
IL
Vertical
Vertikal
Verticale
Vertical
VERT.
PROT
B7
2458
22n
2460
100n
3467
10k
7469
BC636
TV
2L03
D71

FLx.24 (16:9)



15
16
17
18
19
20
21
22
23
24
25
26
RAMA VISION (FL2)
7140
PCF8574A
SDA
SCL
A1
Vdd
A0
A2
Vss
P0
P1
P2
P3
P4
P5
P6
P7
+5
2141
100u
2140
22n
2145
RES
3148
1k
Horizontal
Orizzontale
Horizontal
Horizontal
TV
7512
BC337-40
DC-SHIFT
7513
BC327-40
3513
4k7
3512
330
NOT FOR PANORAMA
9537
+141S
3514
56
3537
56
5514
15u
+200
6515
BYD33D
3515
1
+141
5511
39u
2512
10u
2513
10u
2511
47u
6516
BYD33D
3516
1
6517
BYD33D
3517
1
2518
4u7
2517
470P
9503
1P01
3110
56
3111
56
5110
H.DEFL.
DAF PANEL ONLY 32"-36"
2A01
1A01
2A02
B
5860
AT4043
/67
2861
330p
2860
330p
3301
3302
1A02
A
1A03
2A03
2A06
1A06
2L06
1L06
1P02
2P02
2P32
1L32
1P32
2L32
9504
2110
*
2111
RES
3146
6k8
3147
RES
3100
270k
2112
RES
2103
RES
2101
560n
2106
1u
2105
1u
3102
220
2113
RES
2104
RES
2102
560n
3109
3k3
3108
3k3
3107
3k3
6101 6100
BYD33 BYD33
3115
1
7100
IRFI
640G
2108
RES
3101
36k
2100
RES
6104
6103
BZX79C20
3106
30k
3105
30k
* | 28" | 32"
| 510n | 560n
2P01
3520
1k
3521
1k
3557
RES
5520
Lin.
2526
470p
3531
36k
3501
36k
FLYBACK
PULSE
3509
100k
NOT FOR PANORAMA
6520
BYD33M
2519
1u
3519
30k
3518
30k
2520
560n
9545
FOR PANORAMA
6519
BYD33M
22
1V
ms/DIV
25
800V
70V
10µs/DIV
26
70V
460V
10µs/DIV
+13F
3429
1k1
7402
BC848C
0V4
6404
LL4148
6403
LL4148
2413
180p
2412
220p
3428
33k
2408
180p
25
2525
2523
1)
9507
6527
1015DE
3553
1k2
3552
1k2
3525
1k2
2522
680n
2521
680n
3523
3573
1k5
5521
U15
170V
DIV
500V
DIV
+141S
3508
1)
1P54
24
7506
2SC4288A
54V
0V1
5506
0u82
3506
1
3507
18
5505
0u82
3556
1
2503
270p
6506
BYD27/50
2507
220n
5507
2504
1)
6526
BY229F
-600
2524
1)
27
2527
15n
3504
10
3524
10
5524
3555
150
3510
RES
2509
2n7
5510
33u
2510
1n
3526
1)
3502
9k1
23
3503
9k1
5503
55V
3500
1
3454
1k5
2502
100n
0V3
G
D
S
7501
BSB274
4508
RES
2501
RES
9508
26
East / West
Ost / West
Est / West
Est / West
3604
510k
2604
RES
2609
56n
3609
47k
3610
4k7
3615
470
+13
3616
3k3
2610
2u2
29
31
10V
80V
5µs/DIV
TV
4:3
16:9
7618
BC848C
6611
11V
3613
2k
3629
470k
3631
68k
32
20V
-2V
5µs/DIV
2613
4n7
3617
2k2
7603
BC858
6V5
3V5
2600
4u7
2614
RES
3620
6k8
2605
1n5
3621
110k
28
2612
4u7
3612
1)
2611
4u7
7601
BC848
0V3
3630
10k
7602
BC858
6V7
3619
2k2
3611
2k2
2615
2n7
3614
1k8
7610
BDT60F
18V
17V
1P66
3540
30k
2541
33u
3608
10k
0V5
7608
BC547C
3623
1
3622
1
3465
680
6465
RES
3466
RES
6466
RES
3469
RES
3602
22k
3603
16k
FOR FRANCE
12k
3618
68k
3606
18k
3607
22k
-8
3633
270
2633
RES
6633
LLZ-
C6V2
TV
EXPAND
3653
18k
2601
RES
B1
33
120V
-15V
5µs/DIV
10
8
6
2
5
3
1
9


B
25
26
27
28
29
30
31
32
33
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
6515
BYD33D
3515
1
10
5555
(DSBU100)
+141
5511
39u
2512
10u
2513
10u
2511
47u
8
6516
BYD33D
3516
1
6
6517
BYD33D
3517
1
2517
470P
9503
2
5
9504
3
EHT
E9
TV
DAF UNIT ONLY 32"
36
DYN FOCUS
E205
FOCUS
E10
VG2
E11
ONLY 28"
FOCUS
VG2
1/2 EHT
+32
3538
1)
3528
1)
2529
470n
3530
470k
2530
22n
6529
C43
3529
200k
7530
BC857
3527
1k
IBEAM PROT
2540
RES
2531
22n
7
27
70V
400V
10µs/DIV
+200
6L13
E12
5L13
E13
11
4L13
E14
3532
330
6280
1N4148
3L13
+13
E15
12
2L13
E16
3533
330
1L13
-8
VERT. PROT
E17
3480
100k
B7
+5
6480
BZX79/C4V3
0V4
1V5
7480
BC858C
3479
68k
3481
1k
3482
22
7481
BC848C
3485
1k
2480
10u
0V
SOUND PROT
G8
3511
1R2
3534
1R2
3535
1R2
2534
470p
3536
330
2533
2n2
+32
30
17
6534
BYD29F300
5534
27u
2535
1000u
5557
5520
Lin.
2526
470p
2519
1u
2520
560n
9545
FOR PANORAMA
2522
680n
2521
680n
5521
U15
3523
3573
1k5
3555
150
3510
RES
5510
33u
2509
2n7
2510
1n
16
4530
4531
+8
3560
6R8
5543
27u
7550
BD944F
+13
3550
1k3
3564
56
2560
RES
3561
820
31
18
6536
BY229F300
2536
470p
3551
150
7551
ON4590
7552
ON4590
2537
1000u
2551
150u
6551
BZX55-B3V9
3563
100
3562
2k2
15
32
13
2547
3n9
6546
LL4148
7543
BC856
6547
1N4148
LOT PROT
3558
10
3547
10
3548
3k9
2546
1u
2548
1u
3549
120k
33
14
3539
1
5525
27u
6542
BYD33D
-8
3505
750
2545
RES
2544
100u
5526
28
2612
4u7
2611
4u7
3612
1)
3611
2k2
3570
+32
2543
10u
3544
39k
6570
18V
+13
3542
100k
IBEAM PROT + SOUND PROT + LOT PROT + VERT. PROT
TP66
18V
13V
0V
E/W PROT.
7610
BD160F
3540
30k
7540
BC847C
7542
BC857C
7541
BC847C
0V2
3623
1
3622
1
2541
33u
3541
330k
-11
2542
1u
3543
1)
3546
100k
3545
130
PROT
A5
A+D+E+G+Z

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1)

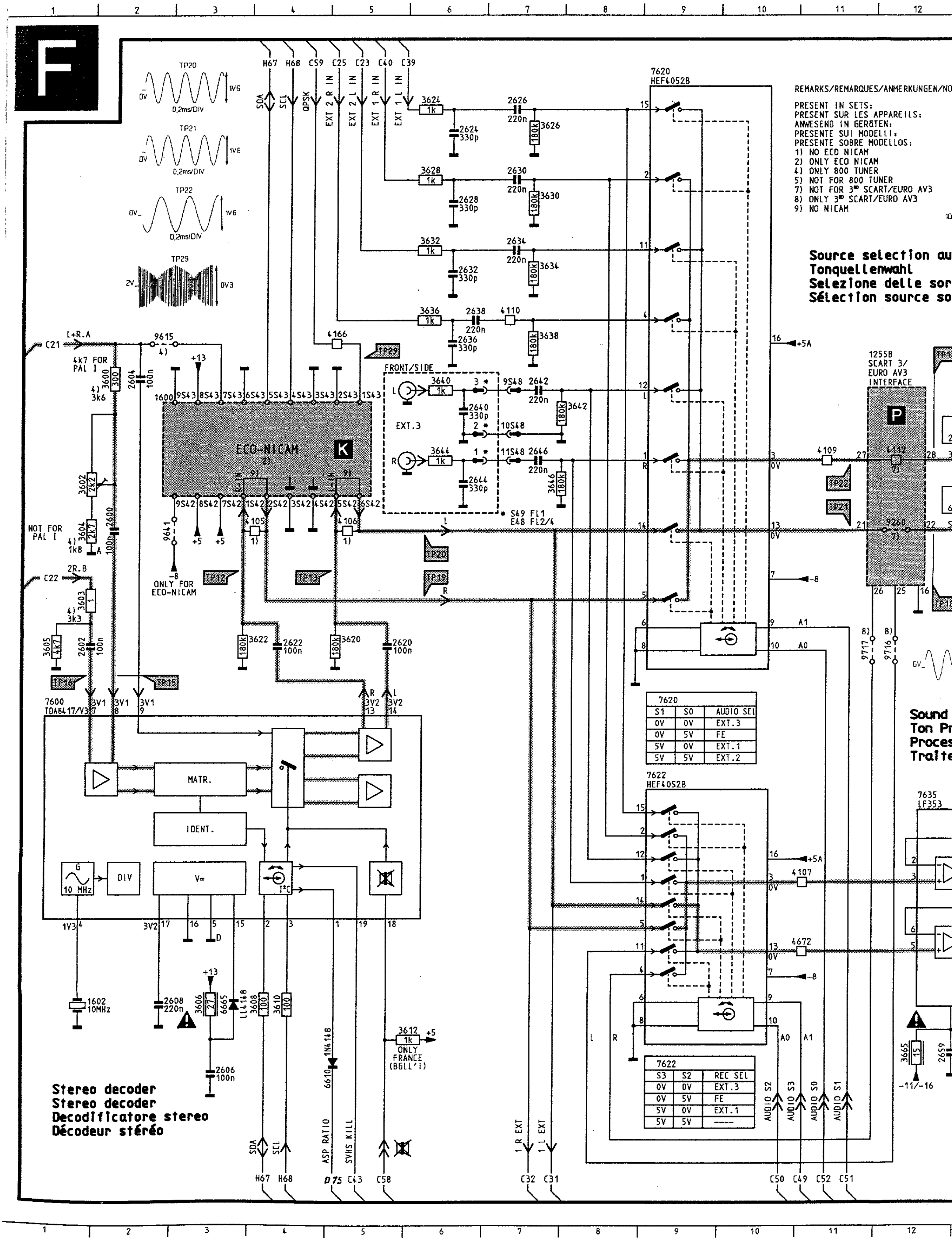
ITEM	28"	32"
2504	820p	2n2
2453	-	100n
2523	9n1	10n
2524	15n	12n
2603	-	100n
2606	47n	27n
3453	-	150
3460	330	270
3508	2k2	2k2
3523	-	15k
3528	1k	1k2
3538	15k	13k
3543	2k2	3k3
3573	-	15k
3612	-	10k
5520	A	B
5521	C	D
5555	E	F

CHASSIS FLx.24

CL46532015/014.BREF
030294

2100	D16	3110	C20	3538	C28	6466	N16
2101	C17	3111	C20	3539	K28	6480	F29
2102	C17	3115	D16	3540	M26	6506	I21
2103	C17	3121	B13	3541	N27	6515	A25
2104	C16	3122	B13	3542	M29	6516	B25
2105	C19	3140	A13	3543	N29	6517	C25
2106	C18	3141	A13	3544	M27	6519	G24
2108	D15	3142	B15	3545	N31	6520	F24
2110	D19	3143	C14	3546	N29	6526	I23
2111	D20	3144	D14	3547	K28	6527	I23
2112	C16	3145	C15	3548	K29	6529	C29
2113	C16	3146	C15	3549	K30	6534	H29
2120	B13	3147	C15	3550	I29	6536	I28
2140	B17	3148	B19	3551	I29	6542	K29
2141	B16	3301	C23	3552	H24	6546	K29
2145	A15	3302	D23	3553	H24	6547	K31
2401	G 7	3402	D 8	3555	I26	6551	J29
2402	D 7	3403	D 9	3556	I21	6570	M28
2403	D 9	3404	D 6	3557	E25	6611	L15
2404	D 7	3405	D10	3558	K28	6633	N21
2405	D 7	3406	D10	3560	H30	6650	G 4
2406	D10	3407	F14	3561	I31	6651	G 3
2407	L 8	3408	D14	3562	J31	6801	L 6
2408	H20	3409	H 8	3563	J30	6802	N 5
2409	G12	3410	I 8	3564	I30	6803	M 4
2410	I 9	3411	H 9	3570	L28	6804	N 6
2411	H 9	3412	J 7	3573	H26	7100	D17
2412	G20	3413	G10	3601	H10	7140	A19
2413	H19	3414	G 7	3602	N17	7141	D15
2415	H11	3415	F 6	3603	N18	7142	C14
2416	D11	3416	J 7	3604	K22	7400	E 7
2417	D11	3417	C 5	3605	I11	7402	G18
2418	E13	3418	B 4	3606	N22	7410	J 8
2419	E13	3419	D14	3607	N22	7417	B 4
2450	M 8	3420	I 7	3608	M23	7443	D 5
2451	M 8	3421	D12	3609	K20	7444	D 6
2452	M11	3422	H 7	3610	K21	7450	L 9
2453	L12	3424	G 9	3611	M25	7451	L 8
2455	K10	3426	F 5	3612	L26	7469	O13
2456	L14	3428	H20	3613	L16	7480	F30
2457	M13	3429	G18	3614	M25	7481	F31
2458	O11	3430	J 3	3615	K21	7501	J18
2459	M11	3438	J 4	3616	K22	7506	H22
2460	O12	3439	H 8	3617	L20	7512	A24
2461	M11	3440	F 5	3618	N20	7513	B24
2480	F31	3441	F 6	3619	M21	7530	D29
2501	J18	3442	F 6	3620	L22	7540	M27
2502	J17	3443	D 5	3621	M23	7541	M28
2503	I19	3444	D 5	3622	N26	7542	M27
2504	I22	3448	D 5	3623	N25	7543	K30
2507	I21	3450	K 8	3625	J 8	7550	I30
2509	J26	3451	K 9	3627	H 6	7551	J30
2510	J26	3452	L11	3628	H 5	7552	J30
2511	B26	3453	L12	3629	L17	7601	M20
2512	A25	3454	J17	3630	M20	7602	M21
2513	B25	3455	N13	3631	L17	7603	L21
2517	C25	3456	L13	3632	H10	7608	N24
2518	C25	3457	M13	3633	N20	7610	M25
2519	G25	3458	M14	3634	H 5	7616	H 6
2520	G25	3459	M14	3650	G 5	7618	L16
2521	H25	3460	M11	3651	G 4	7650	G 4
2522	H25	3461	M13	3652	G 2	7651	G 3
2523	H24	3462	M14	3653	H 3	7652	G 3
2524	I24	3463	M14	3653	O17	7800	J 4
2525	H25	3464	N13	3654	G 4	7801	N 3
2526	F25	3465	N16	3655	G 3	7802	K 3
2527	I25	3466	N16	3656	F 4	9100	B 2
2529	C28	3467	O12	3800	M 7	9101	A13
2530	C29	3468	N13	3801	L 7	9102	A14
2531	D28	3469	O16	3802	M 3	9103	B12
2533	G30	3470	N14	3803	L 4	9503	D26
2534	G29	3471	N13	3804	K 4	9504	E26
2535	H30	3473	N11	3805	D 2	9507	H23
2536	I28	3479	F30	3806	M 3	9508	J19
2537	J28	3480	F32	3807	M 6	9537	A24
2540	D30	3481	F29	3809	M 4	9545	G26
2541	N26	3482	F30	3810	J 4	9625	I 7
2542	N28	3484	F 6	3811	M 6	9652	B 6
2543	M27	3485	F32	4400	K10		
2544	L30	3500	J17	4401	B 5		
2545	L29	3501	F18	4405	F 3		
2546	K29	3502	I19	4508	J19		
2547	K28	3503	I19	4530	I28		
2548	K30	3504	I24	4531	I28		
2551	J29	3505	L28	5110	C20		
2560	I30	3506	H21	5503	I20		
2600	M22	3507	I21	5505	I20		
2601	N18	3508	H17	5506	I20		
2603	I10	3509	F20	5507	I22		
2604	K22	3510	I26	5510	J26		
2605	L23	3511	F28	5511	A26		
2606	I11	3512	A23	5514	C24		
2607	H10	3513	B22	5520	E25		
2609	K20	3514	B24	5521	I26		
2610	L20	3515	A26	5524	I24		
2611	M26	3516	B26	5525	K28		
2612	M26	3517	C26	5526	L25		
2613	L20	3518	G25	5534	H29		
2614	M22	3519	G24	5543	H31		
2615	M25	3520	E24	5555	A27		
2633	N20	3521	E24	5860	D22		
2652	H 3	3523	H26	6100	C19		
2801	L 7	3524	I25	6101	D19		
2805	E 2	3525	H24	6103	D17		
2806	J 5	3526	I18	6104	D16		
2860	D23	3527	C30	6128	B14		
2861	D22	3528	C28	6280	E32		
3100	C15	3529	D28	6403	H19		
3101	D15	3530	C29	6404	G18		
3102	C15	3531	F17	6417	B 5		
3104	D15	3532	E28	6422	H 7		
3105	D19	3533	E28	6440	E 5		
3106	D18	3534	G28	6441	E 5		
3107	C19	3535	H28	6451	N11		
3108	C18	3536	G29	6452	M12		
3109	C18	3537	B25	6465	N16		

Audio processing / Ton Verarbeitung / Trai


F
1
2
3
4
5
6
7
8
9
10
11
12
TP20
0V
1V6
0,2ms/DIV
TP21
TP22
TP29
2V
0V3
H67 H68 C59 C25 C23 C40 C39
SDA
SCL
QPSK
EXT 2 R IN
EXT 2 L IN
EXT 1 R IN
EXT 1 L IN
3624 1k
2624 330p
2626 220n
3626 180k
3628 1k
2628 330p
2630 220n
3630 180k
3632 1k
2632 330p
2634 220n
3634 180k
3636 1k
2636 330p
2638 220n
4110
3638 180k
7620
HEF4052B
C21
L+R.A
9615
4)
4k7 FOR PAL I
3600 300
4) 3k6
2604 100n
+13
4166
1600
9S43 8S43 7S43 6S43 5S43 4S43 3S43 2S43 1S43
ECO-NICAM
K
2)
9)
R IN
L IN
9S42 8S42 7S42 1S42 2S42 3S42 4S42 5S42 6S42
FRONT/SIDE
3640 1k
2640 330p
EXT.3
3644 1k
2644 330p
9S48 2642 220n
3642 180k
10S48
11S48 2646 220n
3646 180k
S49 FL1
E48 FL2/4
3602 2k2
3604 2k7
4) 1k8
NOT FOR PAL I
2600 100n
9641
ONLY FOR ECO-NICAM
4105 1)
4106 1)
+5
TP12
TP13
TP20
TP19
L
R
C22
2R.B
3603 1
4) 3k3
3605 4k7
2602 100n
TP16
TP15
3622 180k
2622 100n
3620 180k
2620 100n
7600
TDA8417/V3
3V1
3V2
MATR.
IDENT.
G
10 MHz
DIV
V=
I²C
1V3
3V2
1602 10MHz
2608 220n
3606 27
6665 LL4148
3608 100
3610 100
2606 100n
6610 1N4148
3612 1k
ONLY FRANCE (BGLL'I)
SDA
SCL
ASP RATIO
SVHS KILL
H67 H68
D75 C43 C58
1 R EXT
1 L EXT
C32 C31
16 +5A
3 0V
13 0V
7 -8
9 A1
10 A0
4109
TP22
TP21
1255B SCART 3/ EURO AV3 INTERFACE
P
4112 7)
9260 7)
27 28 21 22 26 25 16
TP1
TP18
8) 9717
8) 9716
6V
7622
HEF4052B
16 +5A
4107
4672
A0 A1
AUDIO S2
AUDIO S3
AUDIO S0
AUDIO S1
C50 C49 C52 C51
7635
LF353
3665 15
2659
-11/-16

REMARKS/REMARQUES/ANMERKUNGEN/NO

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NO ECO NICAM
2) ONLY ECO NICAM
4) ONLY 800 TUNER
5) NOT FOR 800 TUNER
7) NOT FOR 3RD SCART/EURO AV3
8) ONLY 3RD SCART/EURO AV3
9) NO NICAM

Source selection au
Tonquellenwahl
Selezione delle sor
Sélection source so

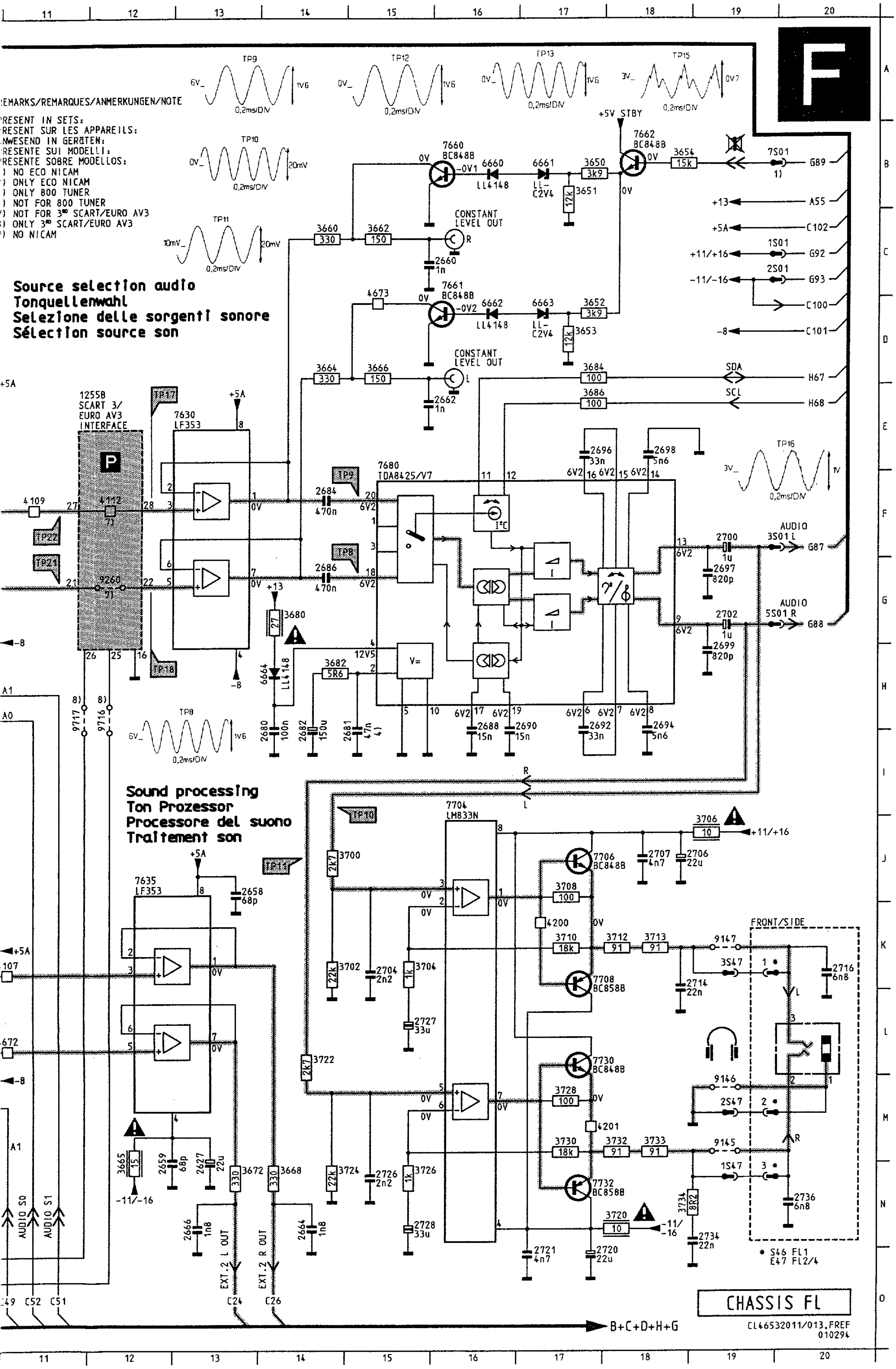
7620		
S1	S0	AUDIO SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	EXT.2

7622		
S3	S2	REC SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	----

Stereo decoder
Stereo decoder
Decodificatore stereo
Décodeur stéréo

Sound
Ton Pr
Proces
Traite

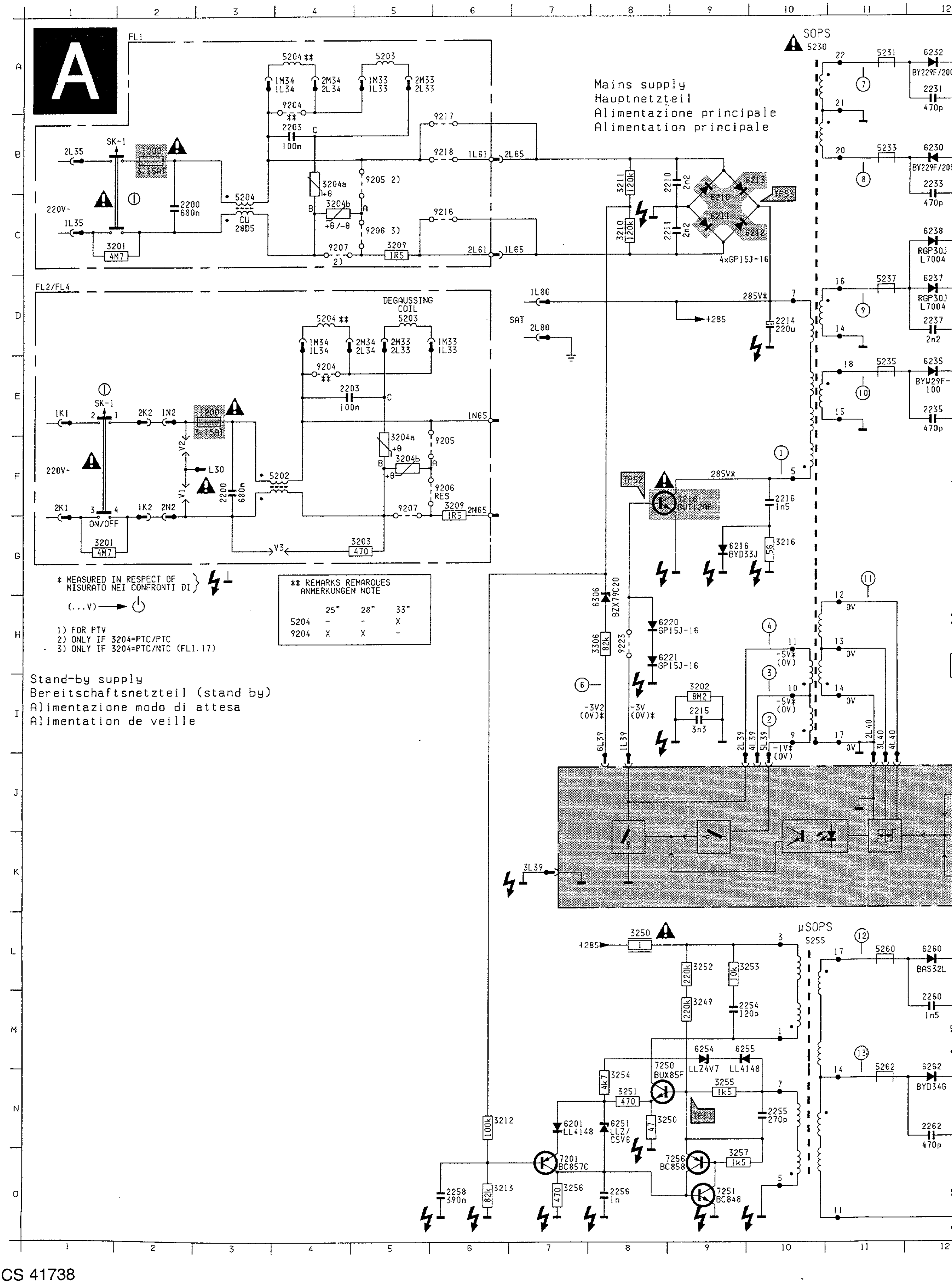
Traitement audio


F
EMARKS/REMARQUES/ANMERKUNGEN/NOTE
RESENT IN SETS:
RESENT SUR LES APPAREILS:
NWESEND IN GERäTEN:
RESENTE SUI MODELLI:
RESENTE SOBRE MODELLOS:
) NO ECO NICAM
) ONLY ECO NICAM
) ONLY 800 TUNER
) NOT FOR 800 TUNER
) NOT FOR 3RD SCART/EURO AV3
) ONLY 3RD SCART/EURO AV3
) NO NICAM
Source selection audio
Tonquellenwahl
Selezione delle sorgenti sonore
Sélection source son
Sound processing
Ton Prozessor
Processore del suono
Traitement son
TP9
TP10
TP11
TP12
TP13
TP15
TP16
TP8
0,2ms/DIV
1255B SCART 3/ EURO AV3 INTERFACE
7630 LF353
7635 LF353
7680 TDA8425/V7
7704 LM833N
7660 BC848B
7661 BC848B
7662 BC848B
7706 BC848B
7708 BC858B
7730 BC848B
7732 BC858B
CONSTANT LEVEL OUT
+5V STBY
SDA
SCL
AUDIO 3S01 L
AUDIO 5S01 R
FRONT/SIDE
* S46 FL1
E47 FL2/4
EXT.2 L OUT
EXT.2 R OUT
AUDIO S0
AUDIO S1
B+C+D+H+G
CHASSIS FL
CL46532011/013.FREF 010294

1255	E11
1600	E 2
1602	M 1
2600	G 2
2602	H 1
2604	E 2
2606	N 3
2608	M 2
2620	H 5
2622	H 4
2624	B 6
2626	A 7
2627	M13
2628	C 6
2630	B 7
2632	D 6
2634	C 7
2636	D 6
2638	D 6
2640	E 6
2642	E 7
2644	F 6
2646	F 7
2658	J13
2659	M12
2660	C16
2662	E16
2664	N14
2666	N13
2680	H14
2681	H15
2682	H14
2684	F14
2686	G14
2688	H16
2690	H16
2692	H17
2694	H18
2696	E17
2697	G19
2698	E18
2699	H19
2700	F19
2702	G19
2704	K15
2706	J18
2707	J18
2714	K18
2716	K20
2720	O17
2721	O17
2726	N15
2727	L15
2728	N15
2734	N19
2736	N20
3600	E 2
3602	F 1
3603	H 1
3604	G 1
3605	H 1
3606	M 3
3608	M 4
3610	M 4
3612	M 6
3620	H 5
3622	H 3
3624	A 6
3626	B 7
3628	B 6
3630	C 7
3632	C 6
3634	C 7
3636	D 6
3638	D 7
3640	E 6
3642	E 8
3644	F 6
3646	F 7
3650	B17
3651	B17
3652	D17
3653	D17
3654	B18
3660	C14
3662	C15
3664	D14
3665	M12
3666	D15
3668	N14
3672	N13
3680	G14
3682	H14
3684	D17
3686	E17
3700	J14
3702	K14
3704	K15
3706	J19
3708	J17
3710	K17
3712	K18
3713	K18
3720	N18
3722	L14
3724	N14
3726	N15
3728	M17
3730	M17
3732	M18
3733	M18
3734	N18
4105	G 4
4106	G 5
4107	K11
4109	F11
4110	D 7
4112	F12
4166	D 5
4200	K17
4201	M17
4672	L11
4673	C15
6610	N 5
6660	B16
6661	B17
6662	D16
6663	D17
6664	H14
6665	M 3
7600	I 1
7620	A 9
7622	J 9
7630	E12
7635	J12
7660	B16
7661	C16
7662	B18
7680	E15
7704	I16
7706	J17
7708	K17
7730	L17
7732	N17
9145	M19
9146	M19
9147	K19
9260	G12
9615	D 2
9641	G 2
9716	H12
9717	H11

Power supply / Stromversorgung / L'alimentation

FLx.24/.26/.27 **12** **FLx.**

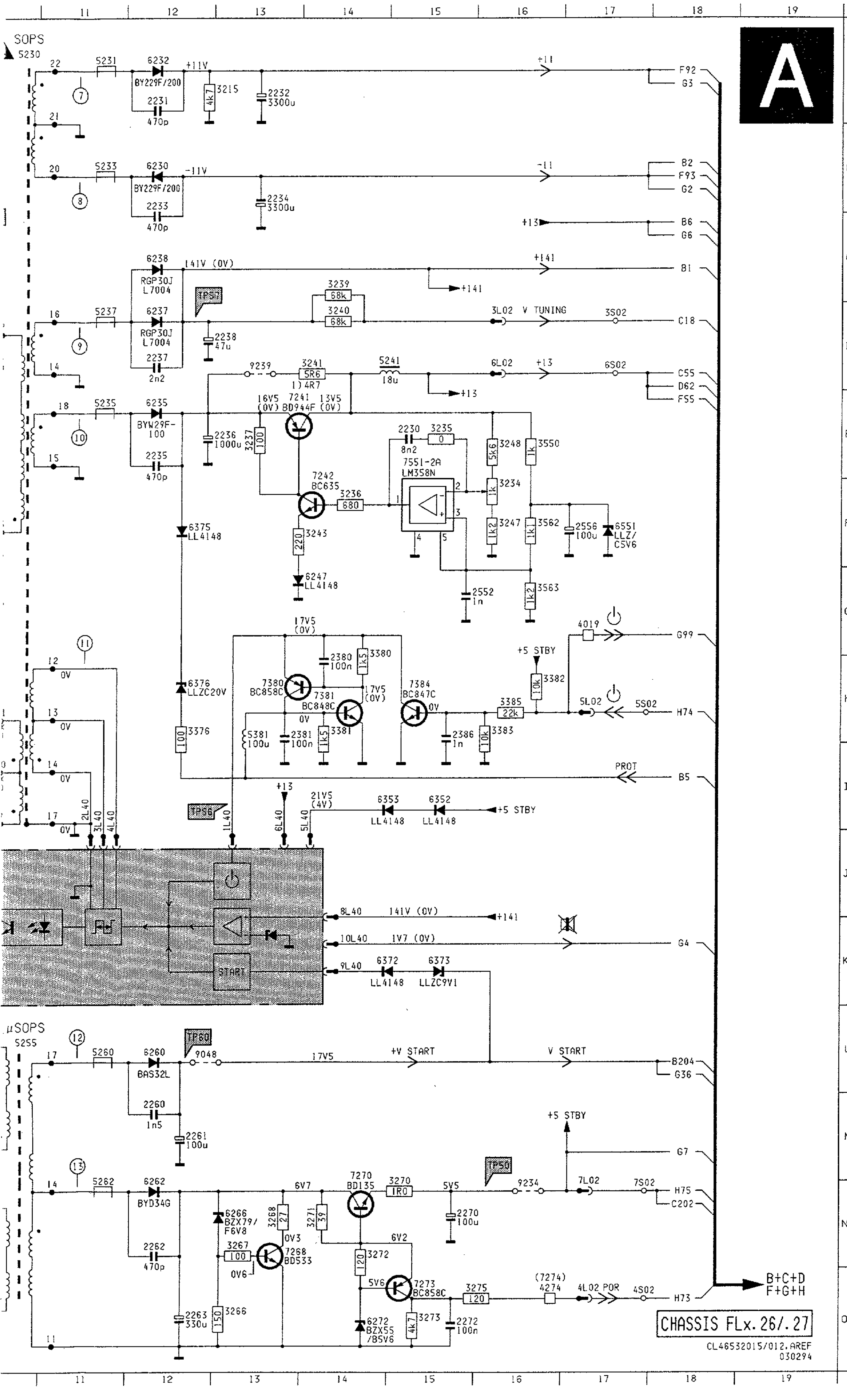


A
FL1
FL2/FL4
SOPS
5230
μSOPS
5255
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
220V~
SK-1
ON/OFF
1200
3.15AT
2200
680n
3201
4M7
5204
5203
5202
CU
28D5
DEGAUSSING
COIL
2203
100n
3204a
3204b
9204
9205
9206
9207
9216
9217
9218
3209
1R5
3203
470
2L35
1L35
2L61
1L61
2L65
1L65
1N65
2N65
1L80
2L80
SAT
L30
3211
120k
3210
120k
2210
2n2
2211
2n2
6210
6211
6212
6213
4xGP15J-16
TP53
285V*
+285
2214
220u
TP52
7216
BUT12AF
2216
1n5
6216
BYD33J
3216
56
6306
BZX79C20
3306
82k
9223
6220
GP15J-16
6221
GP15J-16
3202
8M2
2215
3n3
-3V2 (0V)*
-3V (0V)*
-5V* (0V)
-1V* (0V)
6L39
1L39
2L39
3L39
4L39
5L39
2L40
3L40
4L40
5231
6232
BY229F/200
2231
470p
5233
6230
2233
6238
RGP30J L7004
5237
6237
2237
2n2
5235
6235
BYW29F-100
2235
3250
1
3252
220k
3253
10k
3249
220k
2254
120p
6254
LLZ4V7
6255
LL4148
7250
BUX85F
3254
4k7
3251
470
3255
1k5
2255
270p
TP51
6201
LL4148
6251
LLZ/C5V6
47
3212
100k
3213
82k
7201
BC857C
7256
BC858
3257
1k5
7251
BC848
3256
470
2256
1n
2258
390n
5260
6260
BAS32L
2260
1n5
5262
6262
BYD34G
2262
470p
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI
(...V)
1) FOR PTV
2) ONLY IF 3204=PTC/PTC
3) ONLY IF 3204=PTC/NTC (FL1.17)

** REMARKS REMARQUES ANMERKUNGEN NOTE

	25"	28"	33"
5204	-	-	X
9204	X	X	-

FLx.26/.27 (4:3)


A
SOPS
5230
5231
6232
BY229F/200
+11V
2231
470p
3215
4k7
2232
3300u
+11
F92
G3
5233
6230
BY229F/200
-11V
2233
470p
2234
3300u
-11
B2
F93
G2
+13
B6
G6
6238
RGP30J
L7004
141V (0V)
+141
B1
TP57
3239
68k
3240
68k
5237
6237
RGP30J
L7004
2238
47u
2237
2n2
3L02
V TUNING
3S02
C18
9239
3241
5R6
1) 4R7
5241
18u
6L02
+13
6S02
C55
D62
F55
5235
6235
BYW29F-100
2235
470p
16V5 (0V)
7241 BD944F
13V5 (0V)
2236
1000u
3237
100
2230
8n2
3235
0
3248
5k6
3550
1k
7551-2A
LM358N
7242
BC635
3236
680
3234
1k
3243
220
3247
1k2
3562
1k1
2556
100u
6551
LLZ/C5V6
6375
LL4148
6247
LL4148
2552
1n
3563
1k2
17V5 (0V)
2380
100n
3380
1k5
7380
BC858C
7381
BC848C
17V5 (0V)
7384
BC847C
0V
4019
G99
+5 STBY
3382
10k
3385
22k
5L02
5S02
H74
6376
LLZC20V
3376
100
5381
100u
2381
100n
3381
1k5
2386
1n
3383
10k
PROT
B5
12
0V
13
0V
14
0V
17
0V
2L40
3L40
4L40
TP56
1L40
+13
6L40
5L40
21V5 (4V)
6353
LL4148
6352
LL4148
+5 STBY
8L40
141V (0V)
+141
10L40
1V7 (0V)
G4
START
9L40
6372
LL4148
6373
LLZC9V1
µSOPS
5255
5260
6260
BAS32L
TP60
9048
17V5
+V START
V START
B204
G36
2260
1n5
2261
100u
+5 STBY
G7
5262
6262
BYD34G
6266
BZX79/F6V8
3268
27
6V7
3271
39
7270
BD135
3270
1R0
5V5
TP50
9234
7L02
7S02
H75
C202
2270
100u
3267
100
0V3
7268
BD533
0V6
6V2
3272
120
5V6
7273
BC858C
3275
120
(7274)
4274
4L02 POR
4S02
H73
B+C+D
F+G+H
2262
470p
2263
330u
3266
150
6272
BZX55/B5V6
3273
4k7
2272
100n
CHASSIS FLx. 26/. 27
CL46532015/012.AREF
030294

1200	B 2
1200	E 3
2200	C 2
2200	F 3
2203	B 4
2203	E 4
2210	B 9
2211	C 9
2214	D10
2215	I 9
2216	F10
2230	E15
2231	A12
2232	A13
2233	B12
2234	B13
2235	E12
2236	E12
2237	D12
2238	D12
2254	M 9
2255	N10
2256	O 8
2258	O 6
2260	M12
2261	M12
2262	N12
2263	O12
2270	N15
2272	O15
2380	H14
2381	H13
2386	H15
2552	G15
2556	F17
3201	C11
3201	G 1
3202	I 9
3203	G 5
3204	B 4
3204	C 4
3204	E 5
3204	F 5
3209	C 5
3209	F 6
3210	C 8
3211	B 8
3212	N 6
3213	O 6
3215	A13
3216	G10
3234	E16
3235	E15
3236	F14
3237	E13
3239	C14
3240	D14
3241	D14
3243	F14
3247	F16
3248	E16
3249	M 9
3250	L 8
3250	N 8
3251	N 8
3252	L 9
3253	L 9
3254	N 8
3255	N 9
3256	O 7
3257	O 9
3266	O13
3267	N13
3268	N13
3270	N15
3271	N14
3272	N14
3273	O15
3275	O16
3306	H 8
3376	H12
3380	G14
3381	H14
3382	H16
3383	H16
3385	H16
3550	E16
3562	F16
3563	G16
4274	O16
4L02	O17
5202	F 4
5203	A 5
5203	D 5
5204	A 4
5204	C 3
5204	D 4
5230	A10
5231	A11
5233	B11
5235	E11
5237	D11
5241	D14
5255	L10
5260	L11
5262	N11
5381	H13
6201	N 7
6210	C 9
6211	C 9
6212	C 9
6213	B 9
6216	G 9
6220	H 8
6221	H 8
6230	B12
6232	A12
6235	E12
6237	D12
6238	C12
6247	G14
6251	N 8
6254	M 9
6255	M 9
6260	L12
6262	N12
6266	N13
6272	O14
6306	H 8
6352	I15
6353	I14
6372	K14
6373	K15
6375	F12
6376	H12
6551	F17
7201	O 7
7216	F 9
7241	E13
7242	F14
7250	N 8
7251	O 9
7256	O 9
7268	N13
7270	M14
7273	O15
7274	O16
7380	H13
7381	H14
7384	H15
7551	E15
9048	L12
9204	A 4
9204	E 4
9205	B 5
9205	F 6
9206	C 5
9206	F 6
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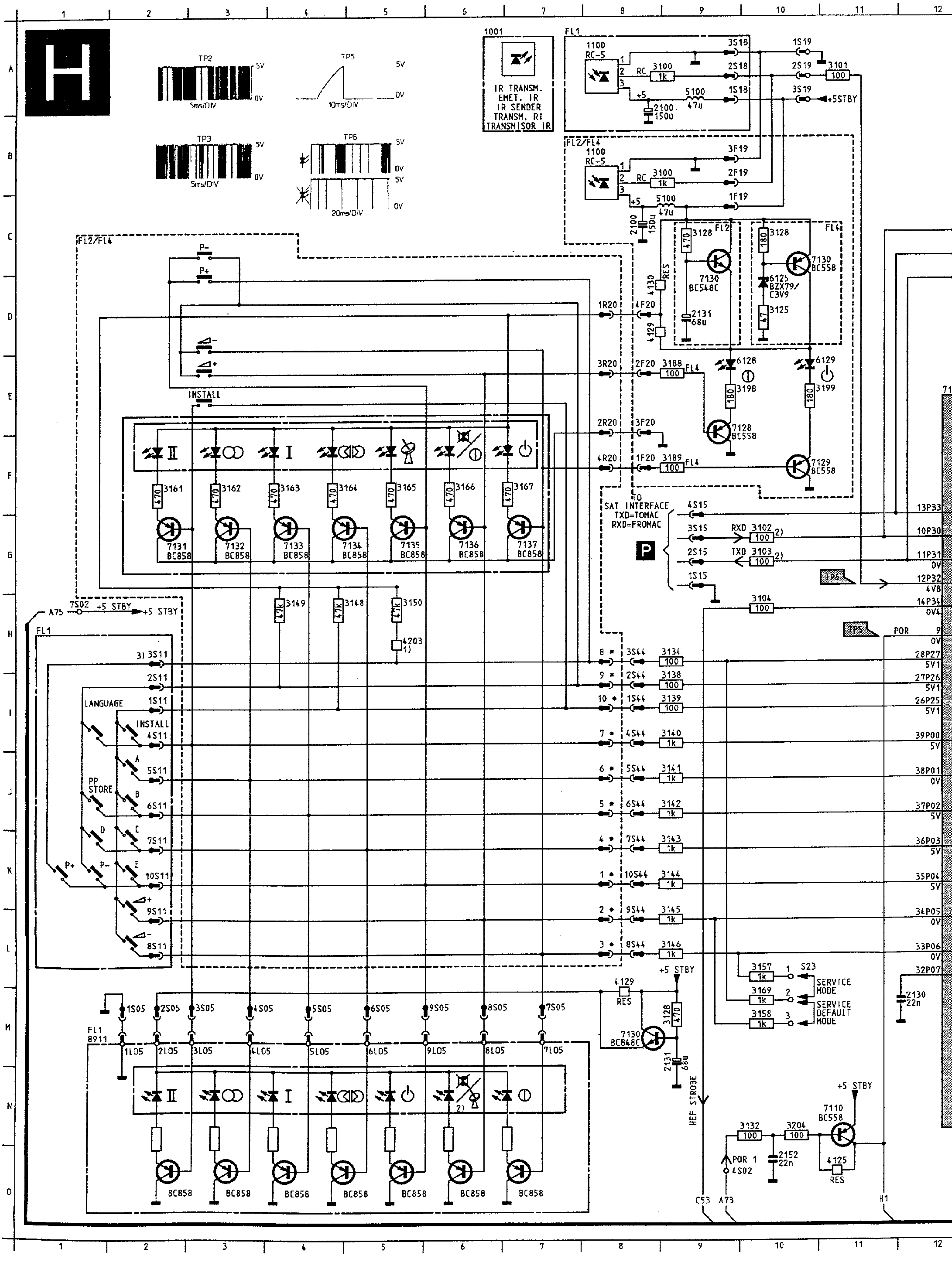
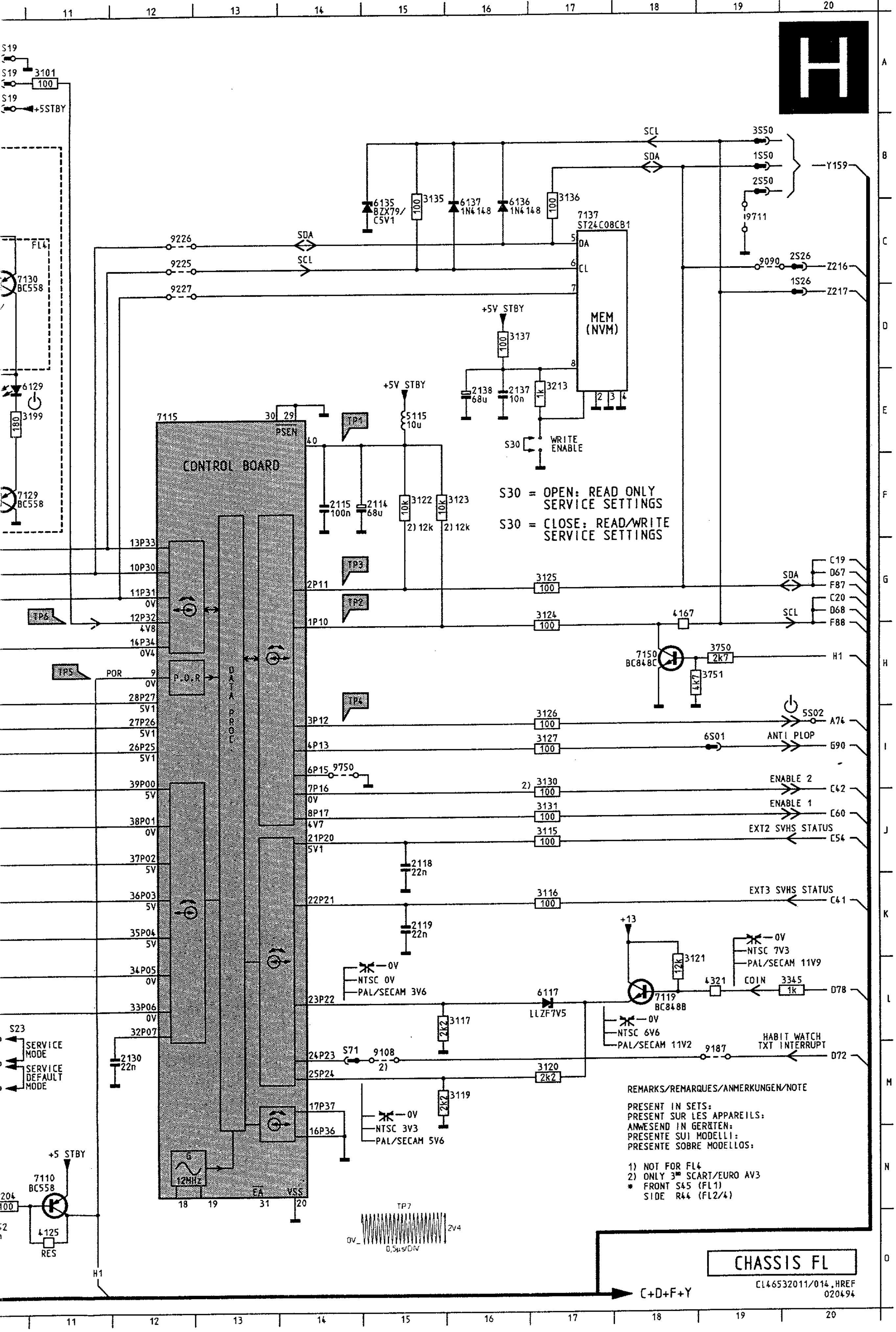
9216	C 6
9217	B 6
9218	B 6
9223	H 8
9234	N16
9239	D13



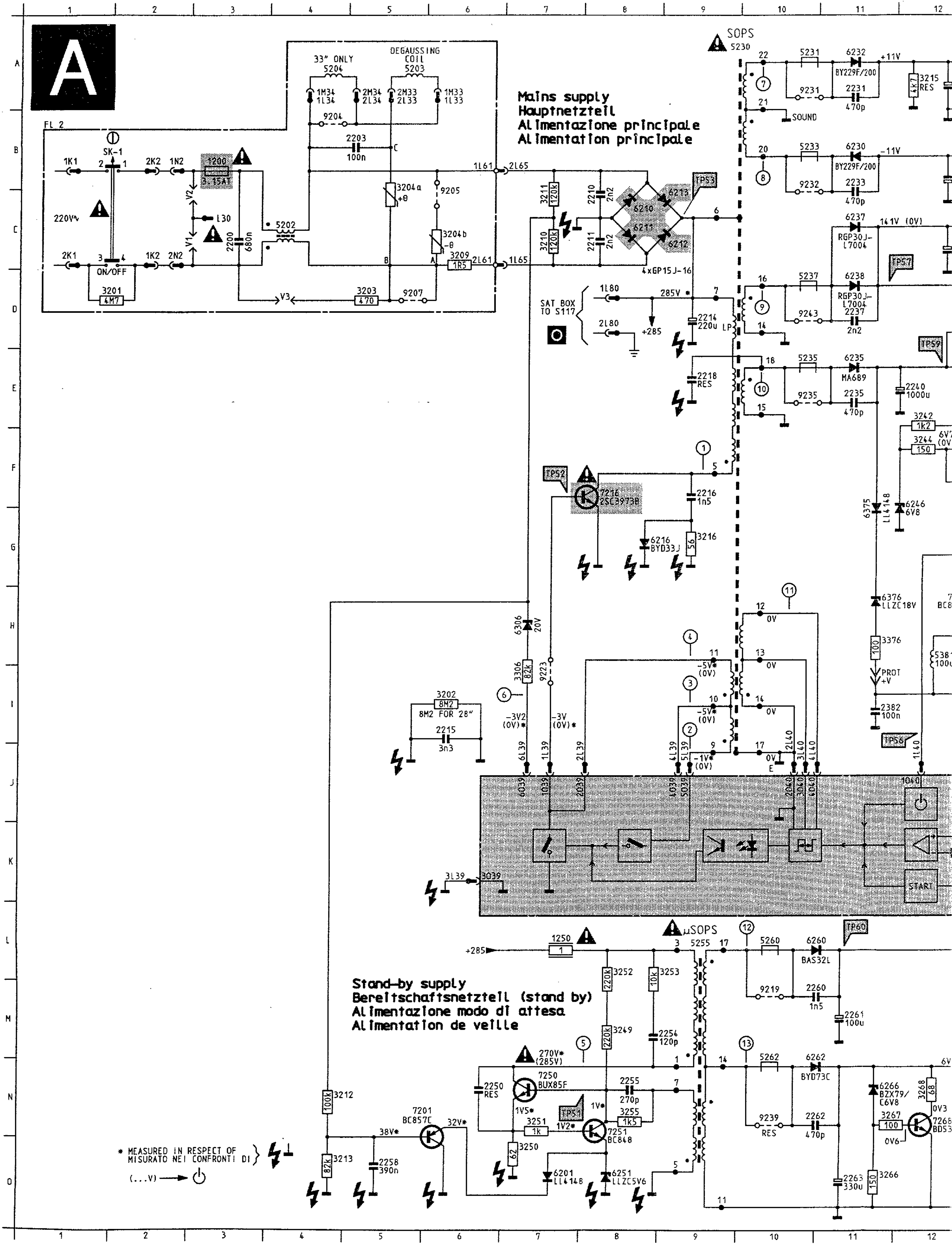
H
TP2
5V
0V
5ms/DIV
TP5
5V
0V
10ms/DIV
TP3
5V
0V
5ms/DIV
TP6
5V
0V
5V
0V
20ms/DIV
1001
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
FL1
1100
RC-5
RC
3100
1k
+5
5100
47u
2100
150u
3S18
2S18
1S18
1S19
2S19
3S19
3101
100
+5STBY
FL2/FL4
1100
RC-5
RC
3100
1k
+5
5100
47u
2100
150u
3F19
2F19
1F19
FL2
FL4
3128
470
180
7130
BC548C
7130
BC558
6125
BZX79/
C3V9
3125
47
2131
68u
RES
4130
4129
1R20
4F20
3R20
2F20
3188
100
2R20
3F20
4R20
1F20
3189
100
6128
3198
180
7128
BC558
6129
3199
180
7129
BC558
FL2/FL4
P-
P+
INSTALL
3161
3162
3163
3164
3165
3166
3167
470
7131
BC858
7132
BC858
7133
BC858
7134
BC858
7135
BC858
7136
BC858
7137
BC858
3149
47k
3148
47k
3150
47k
4203
1)
A75
7S02
+5 STBY
+5 STBY
FL1
3) 3S11
2S11
1S11
LANGUAGE
INSTALL
4S11
A
5S11
PP
STORE
B
6S11
C
D
7S11
P+
P-
E
10S11
9S11
8S11
8 * 3S44 3134 100
9 * 2S44 3138 100
10 * 1S44 3139 100
7 * 4S44 3140 1k
6 * 5S44 3141 1k
5 * 6S44 3142 1k
4 * 7S44 3143 1k
1 * 10S44 3144 1k
2 * 9S44 3145 1k
3 * 8S44 3146 1k
TO
SAT INTERFACE
TXD=TOMAC
RXD=FROMAC
4S15
3S15
RXD 3102 100 2)
2S15
TXD 3103 100 2)
1S15
P
TP6
3104
100
TP5
POR
13P33
10P30
11P31
0V
12P32
4V8
14P34
0V4
9
0V
28P27
5V1
27P26
5V1
26P25
5V1
39P00
5V
38P01
0V
37P02
5V
36P03
5V
35P04
5V
34P05
0V
33P06
0V
32P07
3157
1k
3169
1k
3158
1k
1
2
3
S23
SERVICE
MODE
SERVICE
DEFAULT
MODE
2130
22n
4129
RES
+5 STBY
3128
470
7130
BC848C
2131
68u
HEF STROBE
1S05
2S05
3S05
4S05
5S05
6S05
9S05
8S05
7S05
FL1
8911
1L05
2L05
3L05
4L05
5L05
6L05
9L05
8L05
7L05
2)
BC858
+5 STBY
7110
BC558
3132
100
3204
100
2152
22n
POR 1
4S02
4125
RES
C53
A73
H1
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

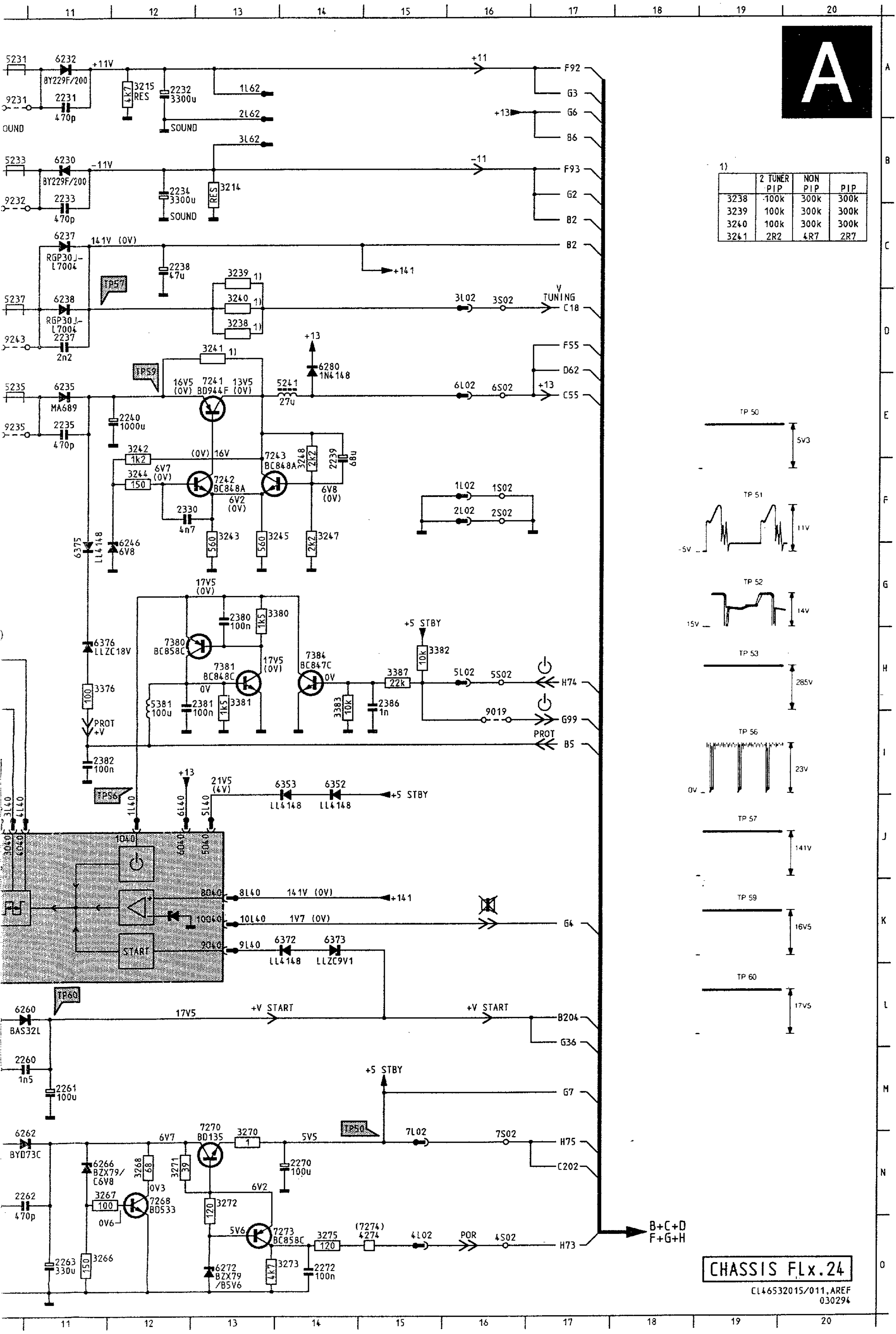
Controls / Bedienung / Commande


H
11
12
13
14
15
16
17
18
19
20
S19
3101
100
+5STBY
FL4
7130
BC558
6129
3199
180
7129
BC558
9226
9225
9227
SDA
SCL
6135
BZX79/
C5V1
3135
100
6137
1N4148
6136
1N4148
3136
100
7137
ST24C08CB1
DA
CL
MEM
(NVM)
3S50
1S50
2S50
Y159
9711
9090
2S26
1S26
Z216
Z217
+5V STBY
3137
100
2138
68u
2137
10n
3213
1k
S30
WRITE
ENABLE
+5V STBY
5115
10u
7115
PSEN
CONTROL BOARD
TP1
TP2
TP3
TP4
TP5
TP6
2115
100n
2114
68u
3122
10k
2) 12k
3123
10k
2) 12k
S30 = OPEN: READ ONLY
SERVICE SETTINGS
S30 = CLOSE: READ/WRITE
SERVICE SETTINGS
13P33
10P30
11P31
12P32
14P34
POR
P.O.R
DATA PROC
28P27
27P26
26P25
39P00
38P01
37P02
36P03
35P04
34P05
33P06
32P07
2P11
1P10
3P12
4P13
6P15
7P16
8P17
21P20
22P21
23P22
24P23
25P24
17P37
16P36
0V
4V8
5V1
5V
4V7
3125
100
3124
100
4167
7150
BC848C
3750
2k7
3751
4k7
C19
D67
F87
C20
D68
F88
H1
3126
100
3127
100
6S01
5S02
ANTI PLOP
A74
G90
9750
3130
100
3131
100
ENABLE 2
ENABLE 1
C42
C60
3115
100
EXT2 SVHS STATUS
C54
2118
22n
3116
100
EXT3 SVHS STATUS
C41
2119
22n
+13
3121
12k
NTSC 7V3
PAL/SECAM 11V9
NTSC 0V
PAL/SECAM 3V6
6117
LLZF7V5
7119
BC848B
4321
COIN
3345
1k
D78
3117
2k2
NTSC 6V6
PAL/SECAM 11V2
S71
9108
9187
HABIT WATCH
TXT INTERRUPT
D72
3120
2k2
3119
2k2
NTSC 3V3
PAL/SECAM 5V6
S23
SERVICE MODE
SERVICE DEFAULT MODE
2130
22n
12MHz
EA
VSS
+5 STBY
7110
BC558
4125
RES
TP7
2V4
0V
0,5µs/DIV
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NOT FOR FL4
2) ONLY 3RD SCART/EURO AV3
* FRONT S45 (FL1)
SIDE R44 (FL2/4)
CHASSIS FL
CL46532011/014.HREF
020494
C+D+F+Y

S23	L10	9750	I14
S30	E16		
1001	A 6		
1100	A 8		
1100	B 8		
2100	B 8		
2100	C 8		
2114	F15		
2115	F14		
2118	J15		
2119	K15		
2130	M12		
2131	M 9		
2131	D 9		
2137	E16		
2138	E16		
2152	O10		
3100	A 9		
3100	B 9		
3101	A11		
3102	G10		
3103	G10		
3104	H10		
3115	J17		
3116	K17		
3117	L16		
3119	M16		
3120	M17		
3121	K18		
3122	F15		
3123	F16		
3124	G17		
3125	D10		
3125	G17		
3126	I17		
3127	I17		
3128	M 9		
3128	C 9		
3128	C10		
3130	I17		
3131	J17		
3132	N10		
3134	H 9		
3135	B15		
3136	B17		
3137	D16		
3138	I 9		
3139	I 9		
3140	I 9		
3141	J 9		
3142	J 9		
3143	K 9		
3144	K 9		
3145	L 9		
3146	L 9		
3148	H 4		
3149	H 4		
3150	H 5		
3157	L10		
3158	M10		
3161	F 2		
3162	F 3		
3163	F 4		
3164	F 4		
3165	F 5		
3166	F 6		
3167	F 7		
3169	M10		
3188	E 9		
3189	F 9		
3198	E 9		
3199	E10		
3204	N10		
3213	E17		
3345	L20		
3750	H19		
3751	H19		
4125	O11		
4129	L 8		
4129	D 8		
4130	D 8		
4167	G18		
4203	H 5		
4321	L19		
5100	A 9		
5100	C 9		
5115	E15		
6117	L17		
6125	D10		
6128	E 9		
6129	E10		
6135	C15		
6136	C16		
6137	C16		
7110	N11		
7115	E12		
7119	L18		
7128	F 9		
7129	F10		
7130	M 8		
7130	D 9		
7130	C10		
7131	G 2		
7132	G 3		
7133	G 4		
7134	G 4		
7135	G 5		
7136	G 6		
7137	G 7		
7137	C17		
7150	H18		
8911	M 1		
9090	C19		
9108	M15		
9187	M19		
9711	C19		

Power supply / Stromversorgung / L'alimentation


A
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
33" ONLY
DEGAUSSING COIL
5204
5203
FL 2
SK-1
ON/OFF
220V∿
1200
3.15AT
2203 100n
2200 680n
5202
3201 4M7
3203 470
9204
9205
9207
3204a +θ
3204b -θ
3209 1R5
1L61
2L65
2L61
1L65
3211 120k
3210 120k
2210 2n2
2211 2n2
6210
6211
6212
6213
4xGP15J-16
TP53
SOPS 5230
SAT BOX TO S117
1L80
2L80
285V
+285
2214 220u
2218 RES
LP
TP52
7216 2SC3973B
2216 1n5
6216 BYD33J
3216 56
6306 20V
3306 82k
9223
3202 8M2
8M2 FOR 28"
2215 3n3
-3V2 (0V)*
-3V (0V)*
-5V* (0V)
-1V* (0V)
6L39
1L39
2L39
4L39
5L39
3L39
2L40
3L40
4L40
1L40
1040
START
5231
6232 BY229F/200
+11V
2231 470p
9231
3215 4K7 RES
SOUND
5233
6230 BY229F/200
-11V
2233 470p
9232
6237 RGP30J-L7004
141V (0V)
TP57
5237
6238 RGP30J-L7004
2237 2n2
9243
TP59
5235
6235 MA689
2240 1000u
2235 470p
9235
3242 1k2
3244 150
6V7 (0V)
6375 LL4148
6246 6V8
6376 LLZC18V
3376 100
PROT +V
2382 100n
TP56
5381 100u
BC8
1250 1
+285
µSOPS
5255
3252 220k
3253 10k
3249 220k
2254 120p
270V* (285V)
2250 RES
7250 BUX85F
2255 270p
3255 1k5
1V5*
1V*
1V2*
TP51
3251 1k
7251 BC848
3250 62
6201 LL4148
6251 LLZC5V6
3212 100k
3213 82k
2258 390n
7201 BC857C
38V*
32V*
5260
6260 BAS32L
TP60
9219
2260 1n5
2261 100u
5262
6262 BYD73C
9239 RES
2262 470p
2263 330u
6266 BZX79/C6V8
3268 68
3267 100
3266 150
7268 BD5
0V3
0V6
6V
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI
(...V)


11
12
13
14
15
16
17
18
19
20
A
5231
6232
BY229F/200
+11V
9231
2231
470p
OUND
3215
RES
4K7
2232
3300u
1L62
2L62
SOUND
+11
F92
G3
+13
G6
B6
5233
6230
BY229F/200
-11V
9232
2233
470p
3L62
2234
3300u
SOUND
3214
RES
-11
F93
G2
B2
6237
141V (0V)
RGP30J-L7004
2238
47u
B2
+141
TP57
3239
3240
3238
1)
5237
6238
RGP30J-L7004
2237
2n2
9243
3L02
3S02
V TUNING
C18
3241
+13
6280
1N4148
F55
D62
TP59
5235
6235
MA689
9235
2235
470p
16V5 (0V)
7241
BD944F
13V5 (0V)
5241
27u
6L02
6S02
+13
C55
2240
1000u
3242
1k2
(0V) 16V
7243
BC848A
3248
2k2
2239
68u
6V7 (0V)
3244
150
7242
BC848A
6V2 (0V)
6V8 (0V)
2330
4n7
1L02
1S02
2L02
2S02
6375
LL4148
6246
6V8
3243
560
3245
560
3247
2k2
17V5 (0V)
2380
100n
3380
1k5
6376
LLZC18V
7380
BC858C
7381
BC848C
17V5 (0V)
7384
BC847C
0V
+5 STBY
3382
10k
3387
22k
5L02
5S02
H74
3376
100
0V
5381
100u
2381
100n
3381
1k5
3383
10k
2386
1n
9019
G99
PROT +V
PROT
B5
2382
100n
TP56
+13
21V5 (4V)
6353
LL4148
6352
LL4148
+5 STBY
3L40
4L40
1L40
6L40
5L40
3040
4040
1040
6040
5040
8040
8L40
141V (0V)
+141
10040
10L40
1V7 (0V)
G4
9040
9L40
6372
LL4148
6373
LLZC9V1
START
TP60
6260
BAS32L
17V5
+V START
+V START
B204
G36
2260
1n5
2261
100u
+5 STBY
G7
6262
BYD73C
6V7
7270
BD135
3270
1
5V5
TP50
7L02
7S02
H75
C202
6266
BZX79/C6V8
3268
68
3271
39
2270
100u
0V3
6V2
3267
100
7268
BD533
3272
120
2262
470p
0V6
5V6
7273
BC858C
3275
120
(7274)
4274
4L02
POR
4S02
H73
B+C+D
F+G+H
2263
330u
3266
150
6272
BZX79/B5V6
3273
4k7
2272
100n
TP 50
5V3
TP 51
11V
-5V
TP 52
14V
15V
TP 53
285V
TP 56
23V
0V
TP 57
141V
TP 59
16V5
TP 60
17V5

1)

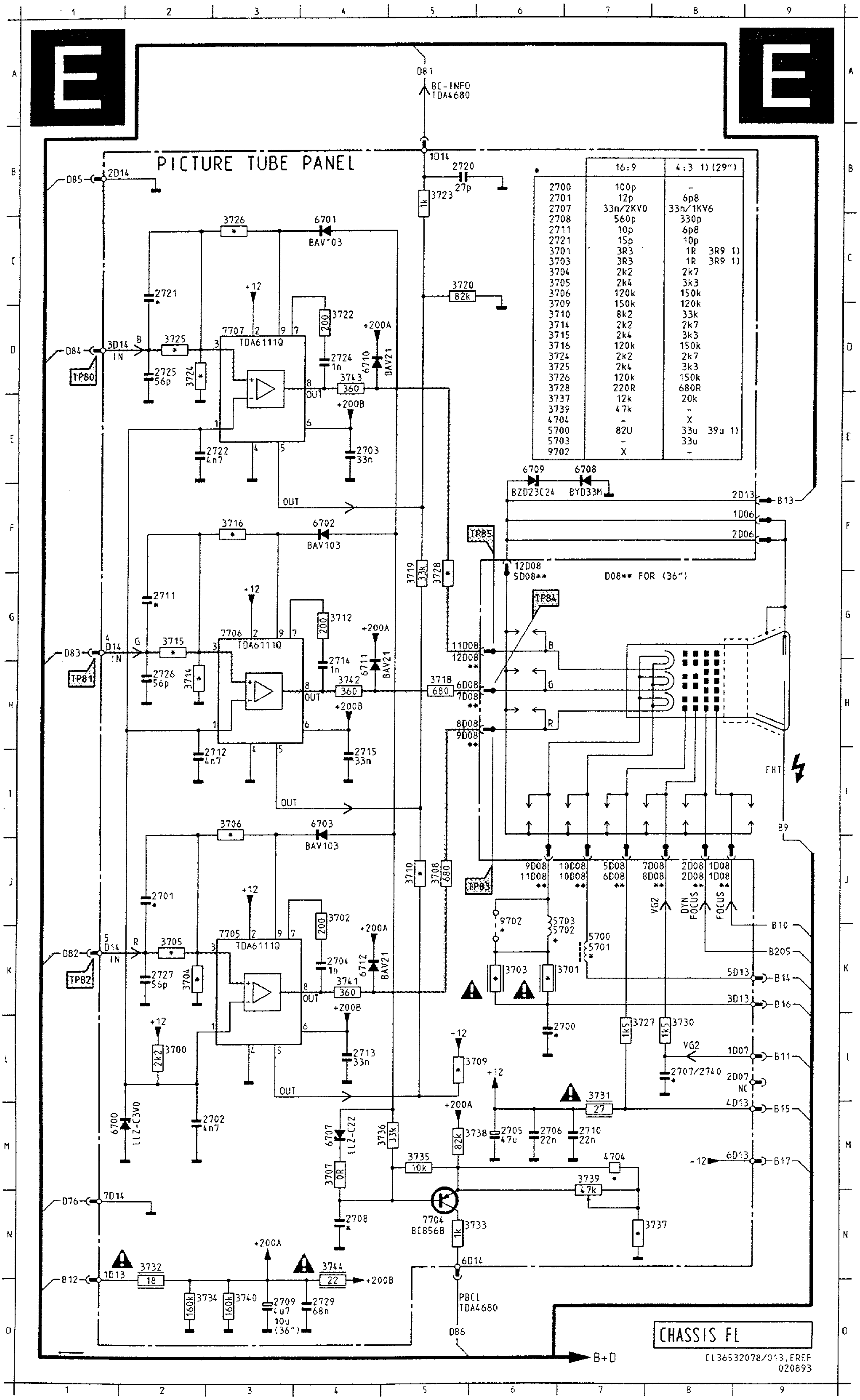
	2 TUNER PIP	NON PIP	PIP
3238	-100k	300k	300k
3239	100k	300k	300k
3240	100k	300k	300k
3241	2R2	4R7	2R7

CHASSIS FLx.24

CL46532015/011.AREF
030294

(727	015
1200	B 3
1200	B 3
1250	L 7
2200	C 3
2200	C 3
2203	B 5
2203	B 5
2210	C 8
2211	C 8
2214	D 9
2215	I 6
2216	F 9
2218	E 9
2231	A11
2232	A12
2233	B11
2234	B12
2235	E11
2237	D11
2238	C12
2239	E14
2240	E12
2250	N 6
2254	M 9
2255	N 8
2258	O 5
2260	M11
2261	M11
2262	N11
2263	O11
2270	N14
2272	O14
2330	F12
2380	G13
2381	H12
2382	I11
2386	H15
3201	D 1
3201	D 1
3202	I 6
3203	D 5
3204	B 5
3204	C 5
3204	B 5
3204	C 6
3209	C 6
3209	C 6
3210	C 7
3211	C 7
3212	N 4
3213	O 4
3214	B13
3215	A12
3216	G 9
3238	D13
3239	C13
3240	D13
3241	D13
3242	E12
3243	F13
3244	F12
3245	F13
3247	F14
3248	E14
3249	M 8
3250	O 7
3251	N 7
3252	L 8
3253	L 9
3255	N 8
3266	O11
3267	N11
3268	N12
3270	N13
3271	N12
3272	N13
3273	O14
3275	O14
3306	I 7
3376	H11
3380	G13
3381	H13
3382	H15
3383	H14
3387	H15
5202	C 4
5203	A 5
5203	A 5
5204	C 4
5204	A 4
5204	A 4
5230	A 9
5231	A10
5233	B10
5235	E10
5237	D10
5241	E14
5255	L 9
5260	L10
5262	N10
5381	H12
6201	O 7
6210	C 8
6211	C 8
6212	C 9
6213	C 9
6216	G 8
6230	B11
6232	A11
6235	E11
6237	C11
6238	D11
6246	G12
6251	O 8
6260	L11
6262	N11
6266	N11
6272	O13
6280	D14
6306	H 7
6352	I 14
6353	I 14
6372	K14
6373	K14
6375	G11
6376	H11
7201	N 6
7216	F 8
7241	E13
7242	F13
7243	F13
7250	N 7
7251	N 8
7268	N12
7270	M13
7273	O13
7380	H12
7381	H13
7384	H14
9019	I 16
9204	B 4
9205	C 6
9205	C 6
9207	C 5
9207	D 5
9218	B 5
9219	M10
9223	I 7
9231	A10
9232	B10
9235	E10
9239	N10
9243	D10

Picture tube panel / Bildröhren Platte /


E
E
PICTURE TUBE PANEL
D81
BC-INFO
TDA4680
1D14
2720
27p
3723
1k
D85
2D14
3726
6701
BAV103
2721
+12
3722
200
+200A
3720
82k
7707
TDA6111Q
D84
3D14
IN
B
3725
3724
2725
56p
2724
1n
6710
BAV21
3743
360
OUT
+200B
2722
4n7
2703
33n
OUT
3716
6702
BAV103
2711
7706
TDA6111Q
3712
2714
1n
6711
BAV21
3742
360
3718
680
2715
33n
2712
4n7
D83
4D14
G
3715
3714
2726
56p
TP80
TP81
TP82
TP83
TP84
TP85
3719
33k
3728
12D08
5D08**
D08** FOR (36")
11D08
12D08
6D08
7D08
8D08
9D08
R
EHT
B9
3706
6703
BAV103
2701
7705
TDA6111Q
3702
2704
1n
6712
BAV21
3741
360
2713
33n
D82
5D14
3705
3704
2727
56p
+12
3700
2k2
2702
4n7
6700
LLZ-C3V0
3710
3708
680
9D08
11D08
10D08
10D08
5D08
6D08
7D08
8D08
2D08
2D08
1D08
1D08
VG2
DYN FOCUS
FOCUS
9702
5703
5702
5700
5701
3703
3701
2700
3727
1k5
3730
1k5
VG2
2707/2740
B10
B205
5D13
B14
3D13
B16
1D07
B11
2D07
NC
4D13
B15
6D13
B17
-12
6709
BZD23C24
6708
BYD33M
2D13
B13
1D06
2D06
3709
+12
3731
27
2705
47u
2706
22n
2710
22n
+200A
3738
82k
3736
33k
6707
LLZ-C22
3707
0R
2708
3735
10k
4704
3739
47k
7704
BC856B
3733
1k
3737
6D14
PBCL
TDA4680
D86
D76
7D14
B12
1D13
3732
18
3734
160k
3740
160k
+200A
2709
4u7
10u
(36")
3744
22
+200B
2729
68n
B+D
CHASSIS FL
CL36532078/013.EREF
020893
1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O

*	16:9	4:3 1) (29")
2700	100p	-
2701	12p	6p8
2707	33n/2KV0	33n/1KV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R 3R9 1)
3703	3R3	1R 3R9 1)
3704	2k2	2k7
3705	2k4	3k3
3706	120k	150k
3709	150k	120k
3710	8k2	33k
3714	2k2	2k7
3715	2k4	3k3
3716	120k	150k
3724	2k2	2k7
3725	2k4	3k3
3726	120k	150k
3728	220R	680R
3737	12k	20k
3739	47k	-
4704	-	X
5700	82U	33u 39u 1)
5703	-	33u
9702	X	-

2700	K 6
2701	J 2
2702	M 2
2703	L 4
2704	K 4
2705	M 6
2706	M 6
2707	L 8
2708	N 4
2709	E 7
2710	M 7
2711	G 2
2712	I 2
2713	E 4
2714	H 4
2715	I 4
2720	B 5
2721	C 2
2722	E 2
2724	D 4
2725	D 2
2726	H 2
2727	K 2
2729	E 6
3700	L 2
3701	K 6
3702	J 4
3703	K 6
3704	K 2
3705	K 2
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3707	M 4
3708	J 5
3709	L 5
3710	J 5
3712	G 4
3714	H 2
3715	G 2
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3718	H 5
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3722	D 4
3723	B 5
3724	D 2
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3734	E 8
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3740	E 7
3741	K 4
3742	H 4
3743	D 4
3744	D 6
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6707	M 4
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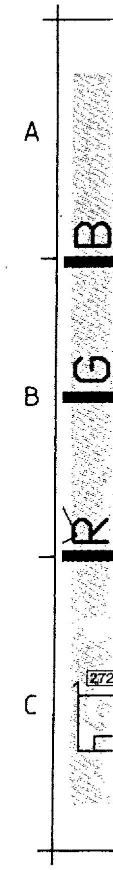
7707	D 3



Platines Tube-image

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E 4
H 4
I 4
B 5
C 2
E 2
D 4
D 2
H 2
K 2
E 6
L 2
K 6
J 4
K 6
K 2
K 2
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H 2
G 2
F 3
H 5
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D 4
B 5
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C 3
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D 8
N 5
E 8
M 5
M 5
N 6
M 5
M 6
E 7
K 4
H 4
D 4
D 6
I 2
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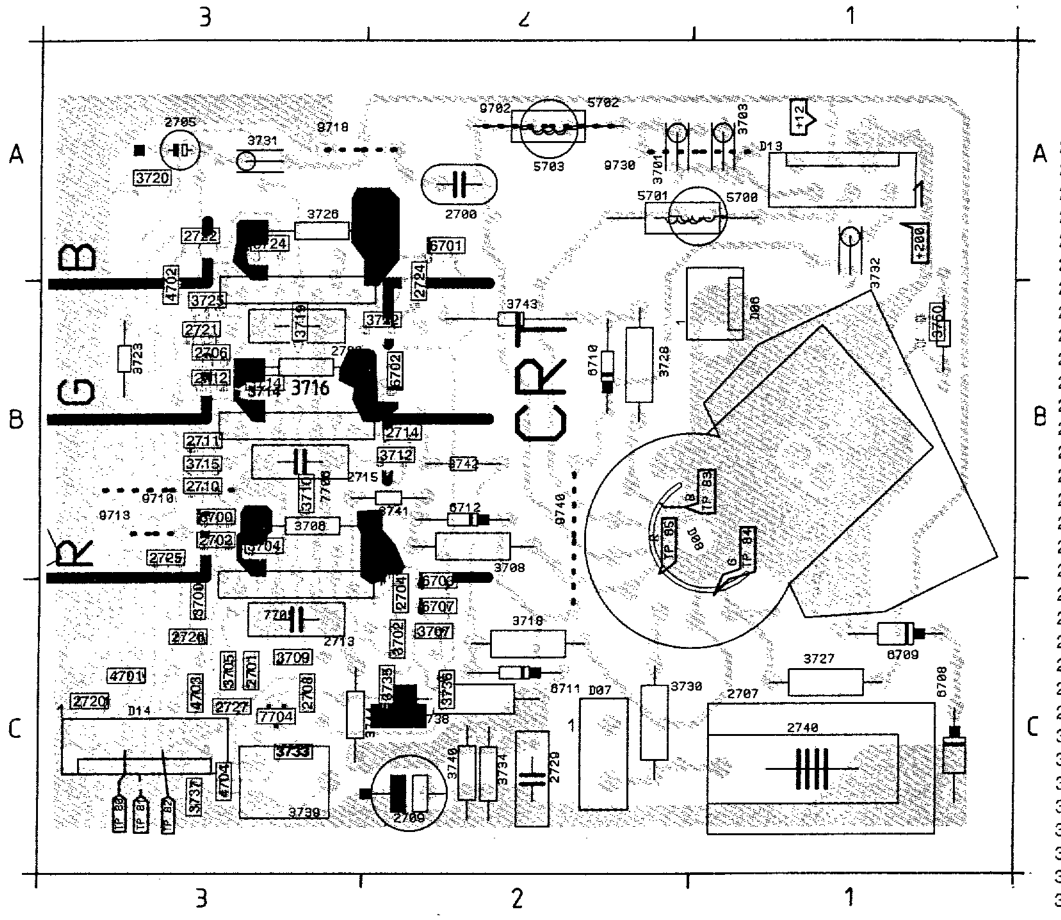
D 3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3701
3703
D13
+12
5701
5700
2700
3726
2722
2724
6701
4702
3725
2784
3743
3732
+200
D06
3750
3719
3722
2721
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2712
3714
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3715
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3736
6711
D07
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D14
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7704
2740
6708
3733
3740
3734
2729
TP 80
TP 81
TP 82
3737
4704
3739
2709
TP 83
TP 84
TP 85
D08

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D07	C2
D08	B1
D13	A1
D14	C3
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2701	C3
2702	B3
2703	B3
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2722	A3
2724	B2
2725	B3
2726	C3
2727	C3
2729	C2
2740	C1
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3701	A2
3702	C2
3703	A1
3704	B3
3705	C3
3706	B3
3707	C2
3708	B2
3709	C3
3710	B3
3712	B2
3714	B3
3715	B3
3716	B3
3718	C2
3719	B3
3720	A3
3722	B2
3723	B3
3724	A3
3725	B3
3726	A3
3727	C1
3728	B2
3730	C2
3731	A3
3732	A1
3733	C3
3734	C2
3735	C2
3736	C2
3738	C2
3739	C3
3740	C2
3741	B2
3742	B2
3743	B2
3744	C3
3750	B1
3751	B1
4701	C3
4702	B3
4703	C3
4704	C3
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5701	A2
5702	A2
5703	A2
6700	B3
6701	A2
6702	B2
6703	C2
6707	C2
6708	C1
6709	C1
6710	B2
6711	C2
6712	B2
7704	C3
7705	C3
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7707	B3
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9713	B3
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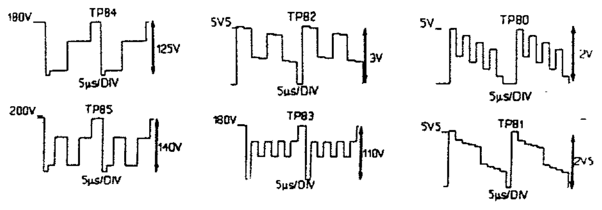
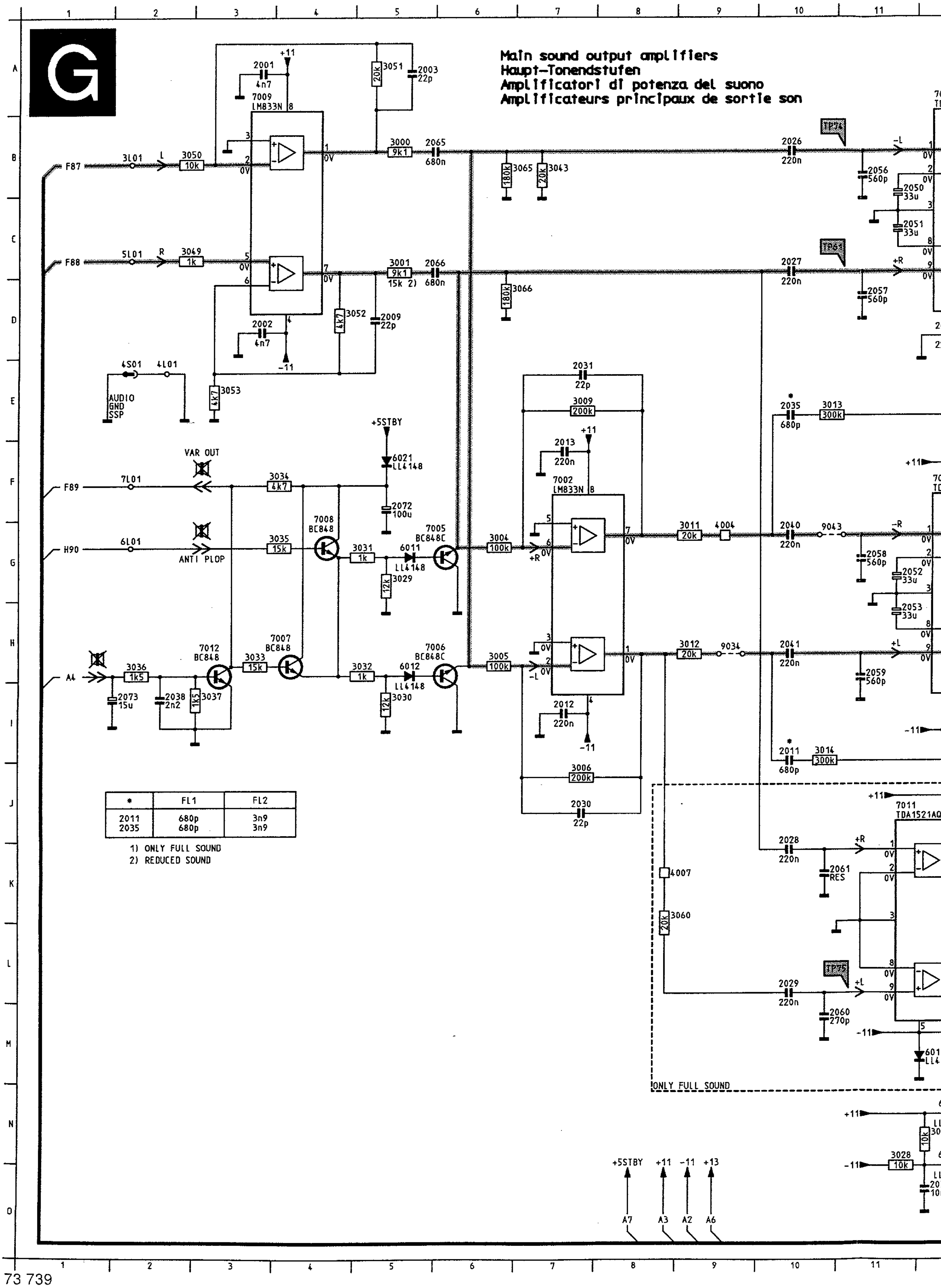
9740	B2

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2
3
4
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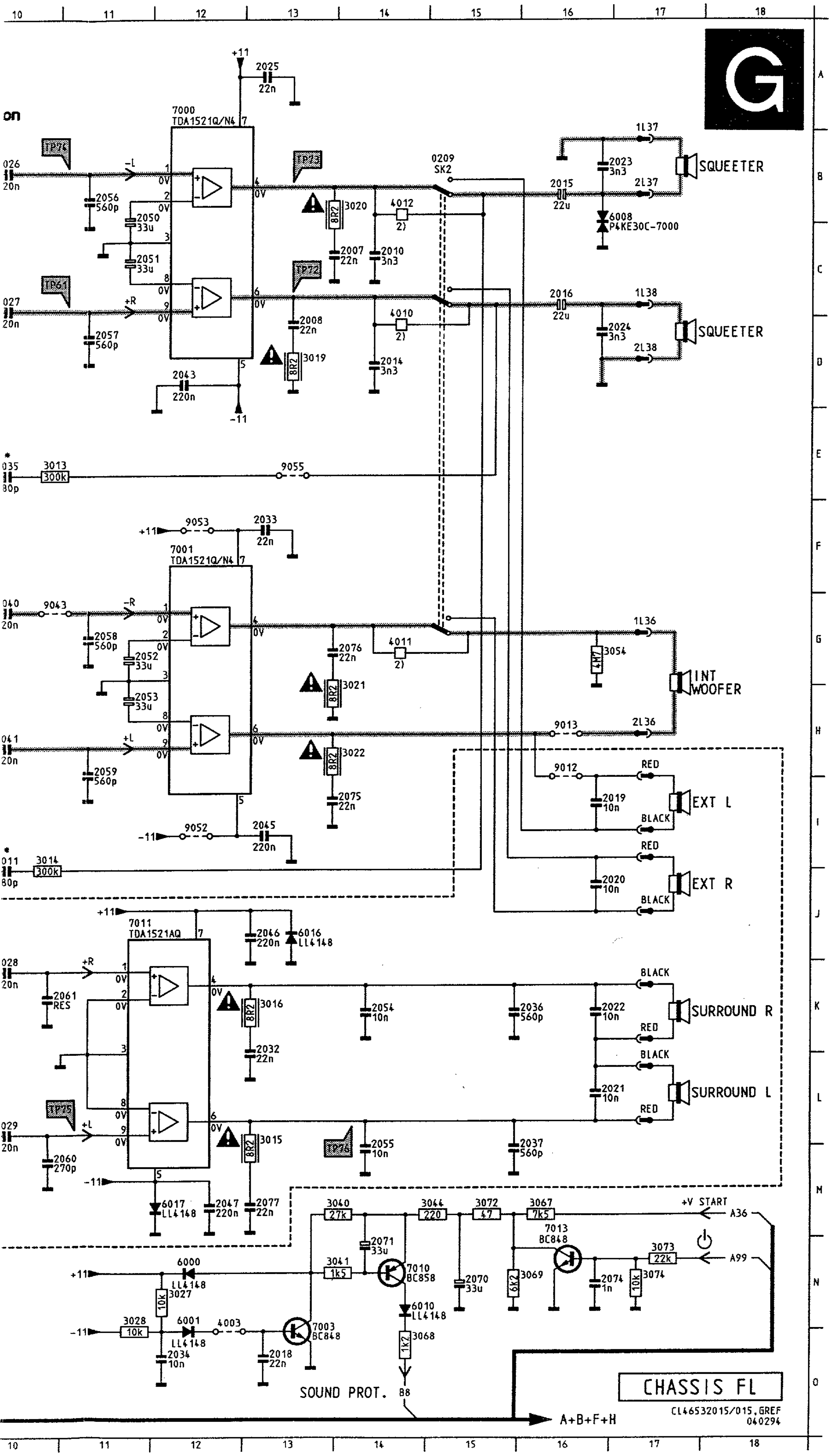
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
F87
3L01
L
3050
10k
F88
5L01
R
3049
1k
+11
2001
4n7
7009
LM833N
8
3
2
0V
1
0V
5
0V
6
7
0V
4
3051
20k
2003
22p
3000
9k1
2065
680n
3001
9k1
15k 2)
2066
680n
3052
4k7
2009
22p
2002
4n7
-11
4S01
4L01
AUDIO
GND
SSP
3053
4k7
3065
180k
3043
20k
3066
180k
TP76
TP61
TP75
2026
220n
2027
220n
-L
+R
2056
560p
2057
560p
2050
33u
2051
33u
F89
7L01
VAR OUT
3034
4k7
+5STBY
6021
LL4148
2072
100u
H90
6L01
ANTI PLOP
3035
15k
7008
BC848
3031
1k
6011
LL4148
3029
12k
7005
BC848C
3004
100k
A4
3036
1k5
2073
15u
2038
2n2
3037
1k5
7012
BC848
3033
15k
7007
BC848
3032
1k
6012
LL4148
3030
12k
7006
BC848C
3005
100k
2031
22p
3009
200k
2013
220n
7002
LM833N
+R
-L
3006
200k
2030
22p
2012
220n
3011
20k
4004
3012
20k
9034
2040
220n
9043
-R
+L
2058
560p
2052
33u
2053
33u
2041
220n
2059
560p
2035
680p
3013
300k
2011
680p
3014
300k
7011
TDA1521AQ
2028
220n
2061
RES
4007
3060
20k
2029
220n
2060
270p
ONLY FULL SOUND
3028
10k
+11
-11
+13
A7
A3
A2
A6

Main sound output amplifiers
Haupt-Tonendstufen
Amplificatori di potenza del suono
Amplificateurs principaux de sortie son

*	FL1	FL2
2011 2035	680p 680p	3n9 3n9

1) ONLY FULL SOUND
2) REDUCED SOUND

Amplificateur audio


G
10
11
12
13
14
15
16
17
18
+11
2025
22n
7000
TDA1521Q/N4
on
TP76
026
20n
-L
2056
560p
2050
33u
2051
33u
TP73
3020
8R2
4012
2)
2007
22n
2010
3n3
0209
SK2
2015
22u
1L37
2023
3n3
2L37
6008
P4KE30C-7000
SQUEETER
TP61
027
20n
+R
2057
560p
TP72
2008
22n
3019
8R2
4010
2)
2014
3n3
2016
22u
1L38
2024
3n3
2L38
SQUEETER
2043
220n
-11
035
3013
300k
30p
9055
+11
9053
2033
22n
7001
TDA1521Q/N4
040
9043
20n
-R
2058
560p
2052
33u
2053
33u
2076
22n
4011
2)
3021
8R2
1L36
3054
4M7
INT
WOOFER
041
+L
2059
560p
3022
8R2
9013
2L36
9012
RED
2019
10n
BLACK
EXT L
2075
22n
9052
2045
220n
011
3014
300k
80p
RED
2020
10n
BLACK
EXT R
7011
TDA1521AQ
2046
220n
6016
LL4148
028
20n
2061
RES
3016
8R2
2054
10n
2036
560p
BLACK
2022
10n
RED
SURROUND R
2032
22n
BLACK
2021
10n
RED
SURROUND L
TP25
029
2060
270p
3015
8R2
TP74
2055
10n
2037
560p
6017
LL4148
2047
220n
2077
22n
3040
27k
3044
220
3072
47
3067
7k5
+V START
A36
7013
BC848
2071
33u
3041
1k5
7010
BC858
2070
33u
3069
6k2
3073
22k
A99
2074
1n
3074
10k
6000
LL4148
3027
10k
3028
10k
6001
LL4148
4003
7003
BC848
2034
10n
2018
22n
6010
LL4148
3068
1k2
SOUND PROT.
B8
CHASSIS FL
A+B+F+H
CL46532015/015.GREF
040294

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2002	D 3
2003	A 5
2007	C14
2008	D13
2009	D 5
2010	C14
2011	I 10
2012	I 7
2013	F 7
2014	D14
2015	B16
2016	C16
2018	O13
2019	I 16
2020	J16
2021	L16
2022	K16
2023	B16
2024	D16
2025	A13
2026	B10
2027	C10
2028	K10
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2032	K13
2033	F13
2034	O12
2035	E10
2036	K16
2037	M16
2038	I 2
2040	G10
2041	H10
2043	D12
2045	I 13
2046	J13
2047	M12
2050	B11
2051	C11
2052	G11
2053	H11
2054	K14
2055	M14
2056	B11
2057	D11
2058	G11
2059	H11
2060	M10
2061	K10
2065	B 5
2066	C 5
2070	N15
2071	N14
2072	F 5
2073	I 2
2074	N16
2075	I 14
2076	G14
2077	M13
3000	B 5
3001	C 5
3004	G 6
3005	H 6
3006	J 7
3009	E 7
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3012	H 9
3013	E10
3014	I 10
3015	L13
3016	K13
3019	D13
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3022	H14
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3030	I 5
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3032	H 5
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3036	H 2
3037	I 3
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3052	D 4
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7012	H 3
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9012	H16
9013	H16
9034	H 9
9043	G10
9052	I 12
9053	F12
9055	E13

Large signal panel FLx.26/.27 /

L01	F1
L02	E1
L03	A1
L08	C4
L13	C4
L27	B3
L28	G1
L30	A1
L31	E2
L33	G2
L34	G2
L35	G3
L36	A2
L37	A3
L38	A2
L39	F3
L40	E3
L61	G2
L62	E5
L65	G2
L67	D4
L68	C3
L69	A2
L80	G4
L87	B2
SK1	G3
SK2	B3
0207	A4
0211	A3
039	H5
040	H4
1200	G3
2001	G1
2002	G1
2003	G1
2004	G1
2005	G1
2007	B5
2008	B5
2009	G1
2010	A4
2011	D5
2012	C5
2013	C5
2014	A3
2015	A3
2016	A3
2018	A5
2019	A4
2020	A4
2021	A4
2022	A4
2023	A3
2024	A3
2025	C5
2026	B5
2027	C5
2028	B5
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2037	A4
2038	D4
2039	A4
2040	D5
2041	D5
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2044	D5
2045	D5
2046	B5
2047	B5
2048	B1
2049	A4
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053	D5
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2057	C5
2058	D5
2059	D5
2060	B5
2061	B5
2065	C4
2066	D5
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2071	A5
2072	D4
2073	D4
2074	A5
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2203	H2
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2211	F4
2214	G4
2215	G4
2216	G5
2218	F5
2219	F5
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2233	E4
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2236	D4
2237	E3
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2262	E3
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2303	H5
2308	H5
2321	H5
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2351	H4
2360	H4
2361	H4
2365	H4
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3370	H4
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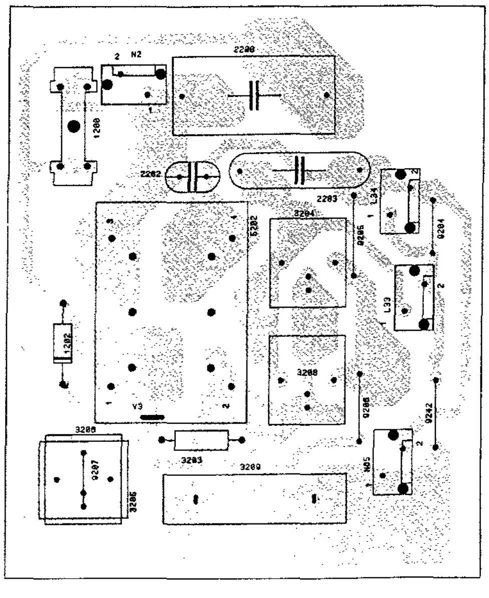
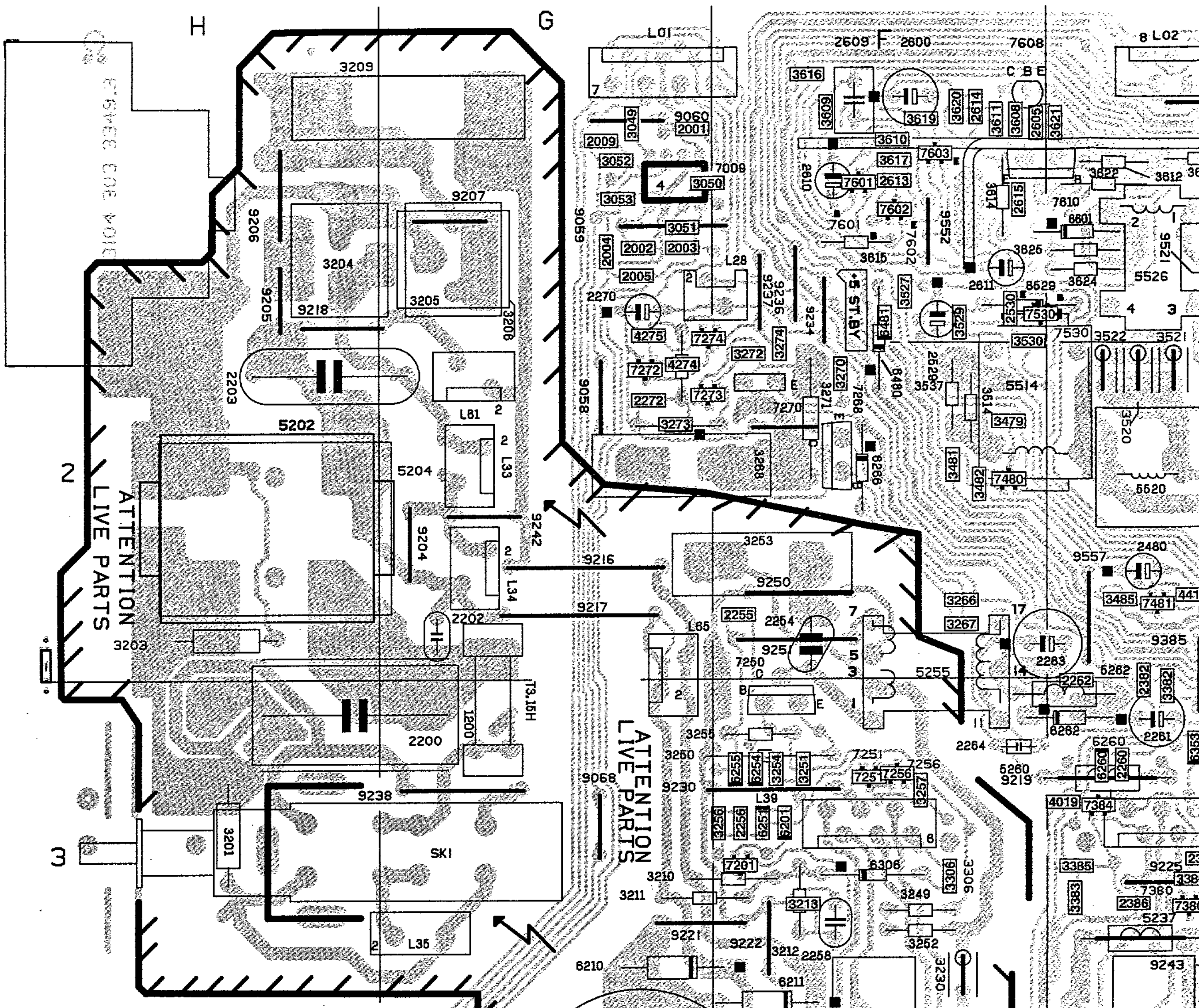
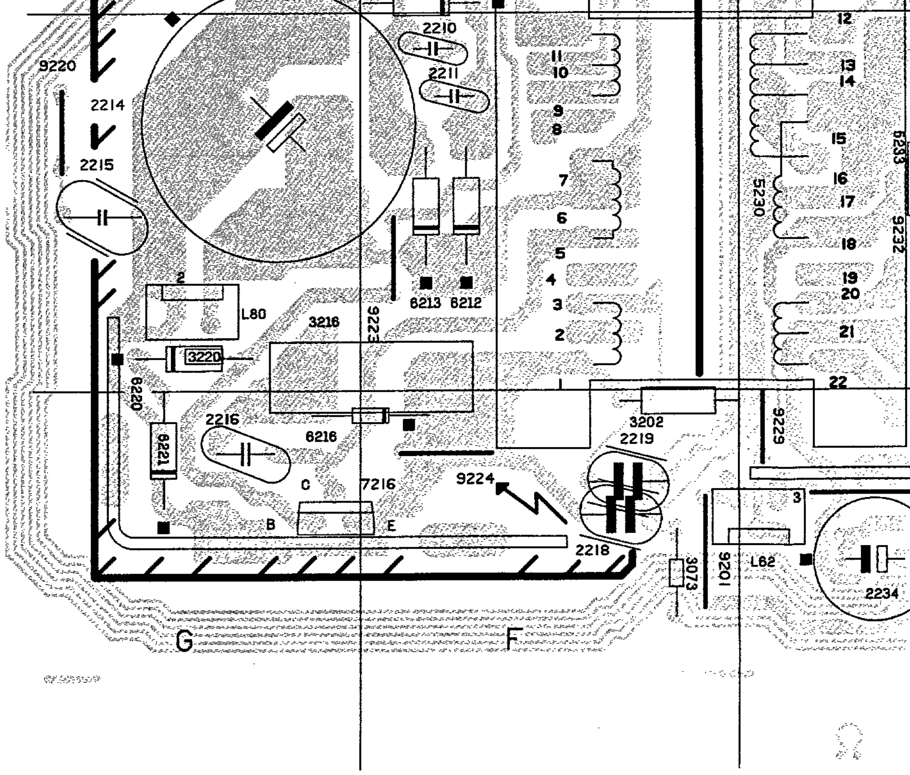
Mains filter FL4



Groß-signal Platte FLx.26/.27

Plat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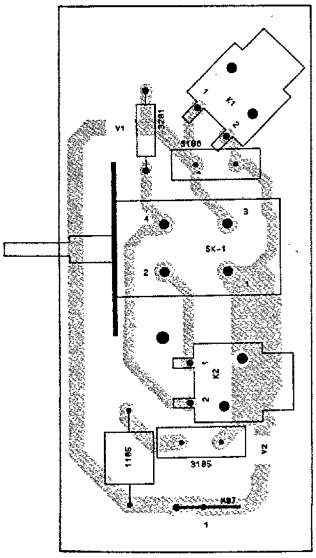
Mains switch FL4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K2
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V2
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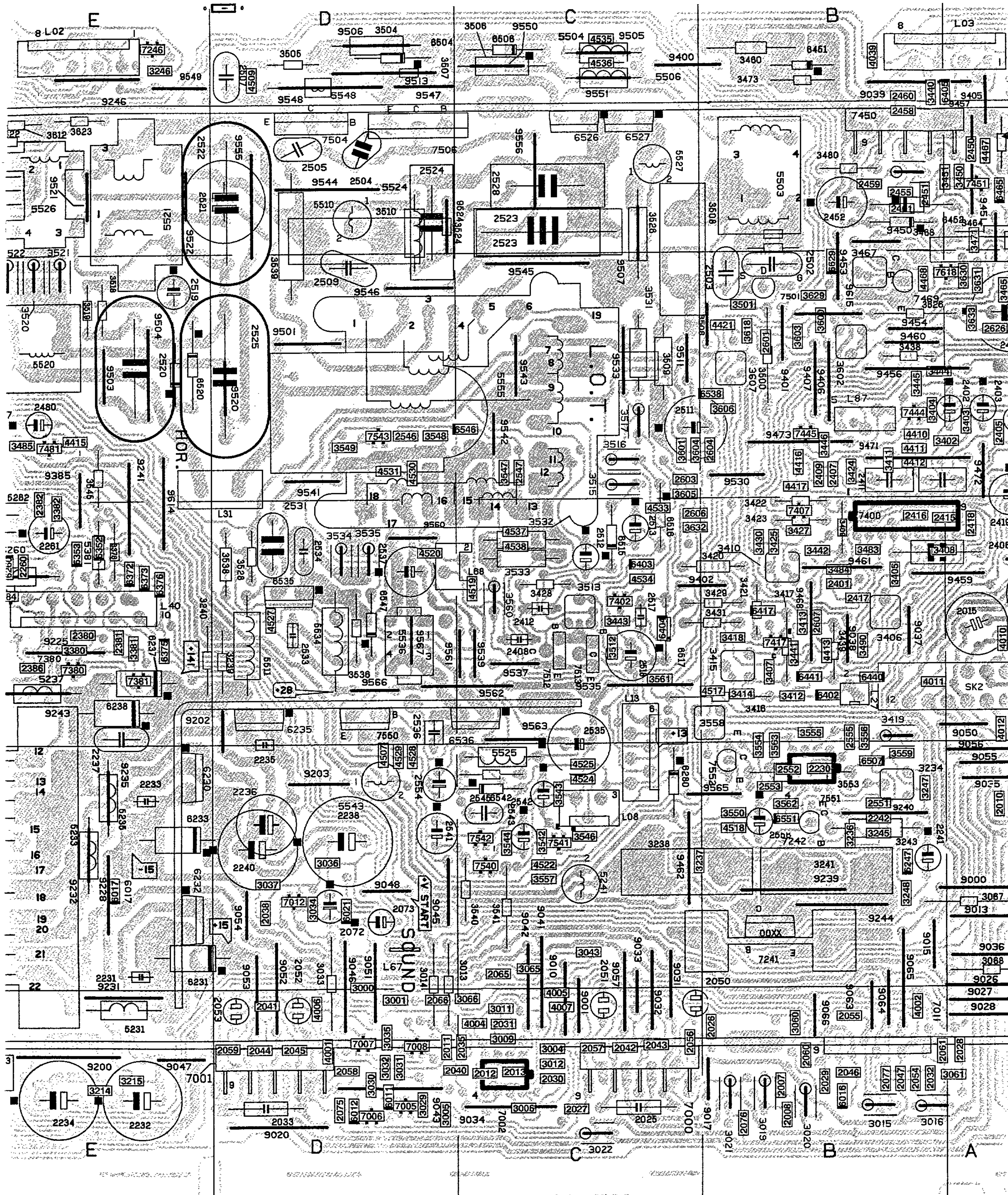
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L13
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+15
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+V START
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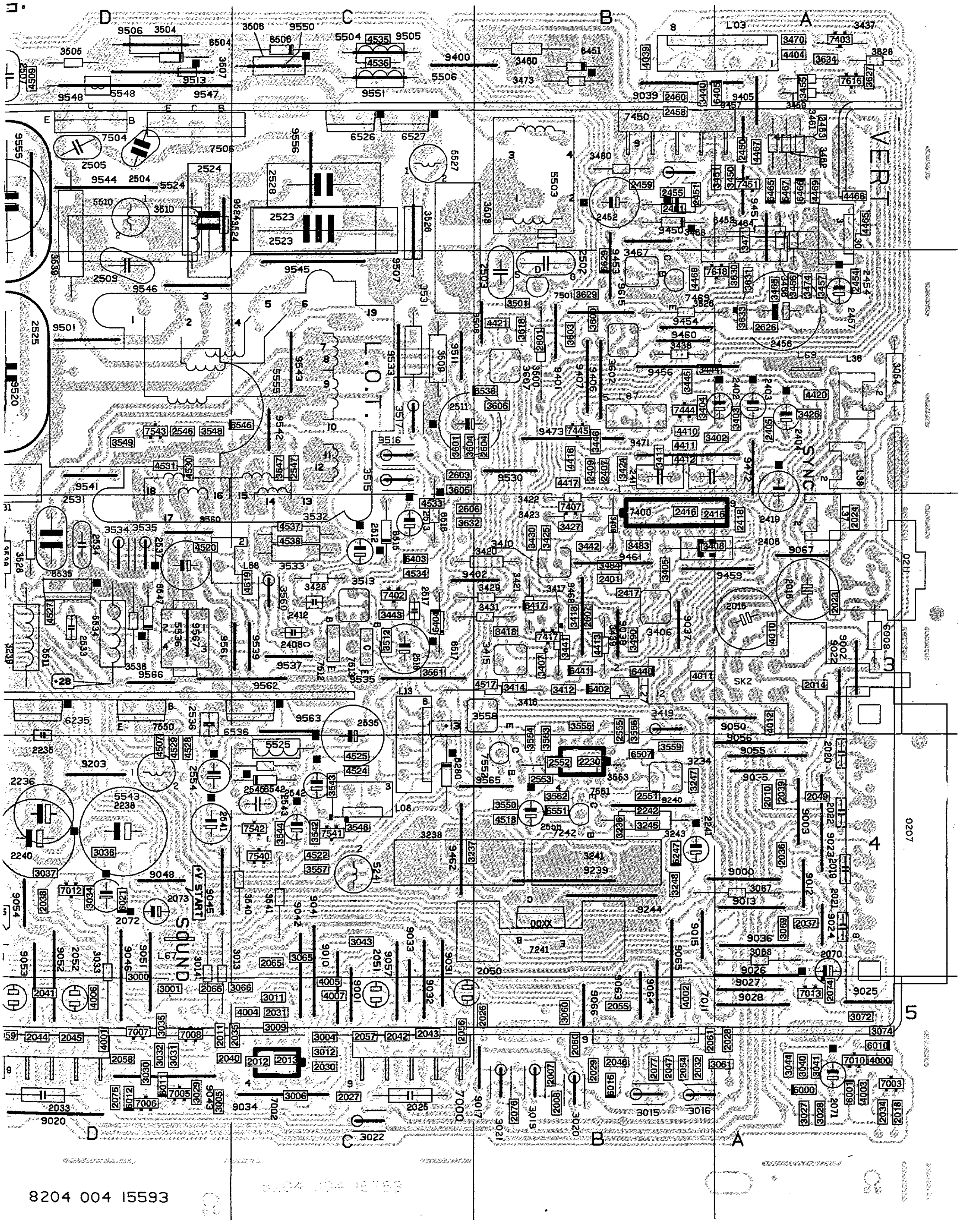
gneaux FLx.26/.27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L69
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L88
L13
L08
7400
7450
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7242
7000
7002
3
4
5

8204 004 15593

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L02	E1
L03	A1
L06	C2
L13	C4
L30	A1
L32	E2
L33	G2
L34	G2
L35	G3
L36	A2
L37	A3
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L39	F3
L40	E3
L61	G2
L65	G2
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SK2	B3
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040	H4
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2001	G1
2002	G1
2003	G1
2004	G1
2005	G1
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2008	B5
2009	G1
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2011	D5
2012	C5
2013	C5
2014	A3
2015	A3
2016	A3
2018	A5
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2020	A4
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3312	H5
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3422	B2
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9451	A2
9452	B2
9453	A1
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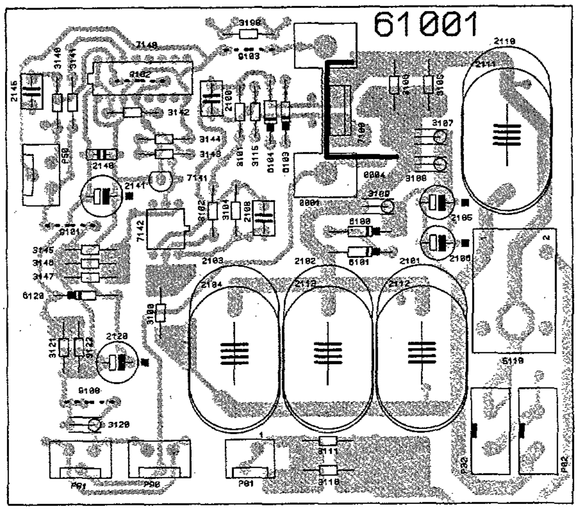
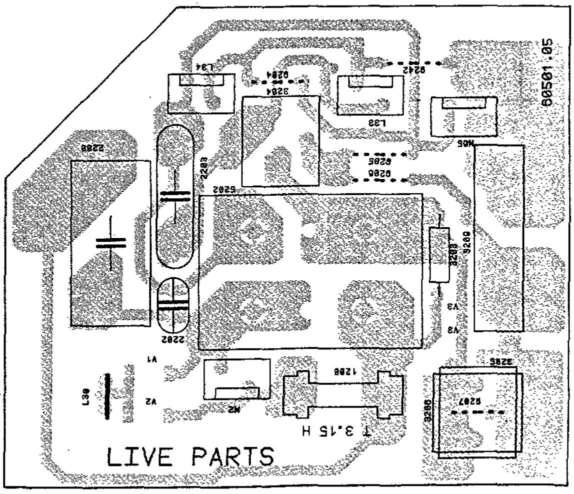
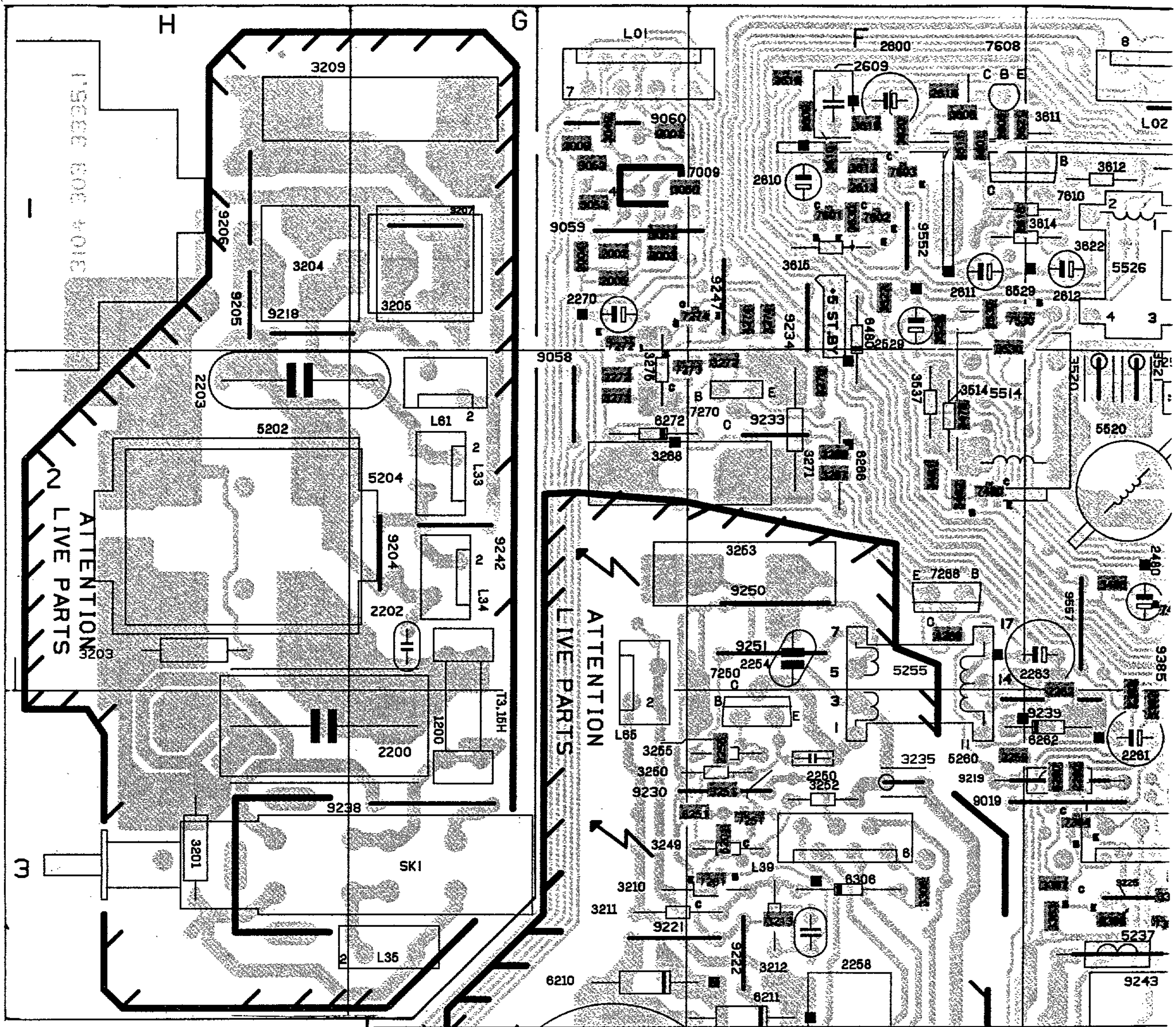
Panorama

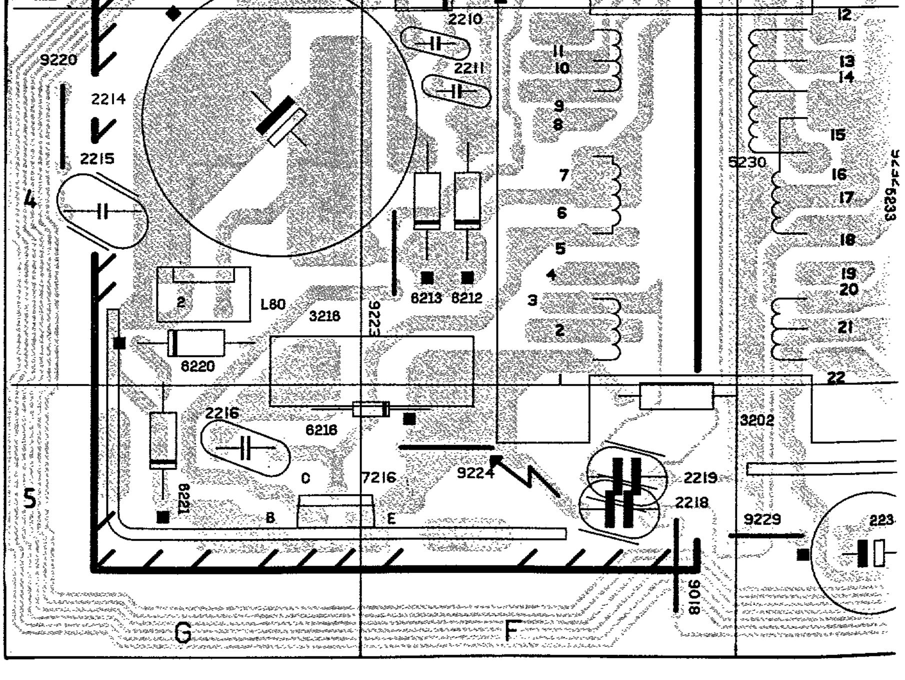


Mains filter FL2



Large signal panel FLx.24 / Groß-signal Platte FLx.24 /




H
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ATTENTION LIVE PARTS
ATTENTION LIVE PARTS
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3207
9206
9205
9218
2203
L61
5202
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L33
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L34
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2200
1200
T3.15H
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SK1
L35
L01
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9552
3616
+5 ST.BY
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3637
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7288
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2254
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3260
9230
2250
3252
3249
L39
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3210
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3212
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6211
2210
2211
9220
2214
2215
6213
6212
L80
3216
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2216
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L02
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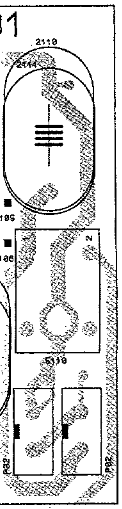
anorama



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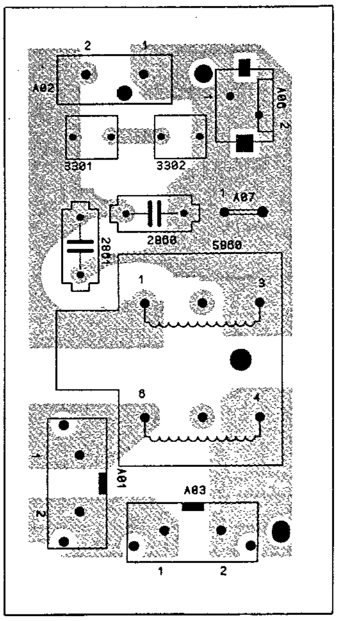
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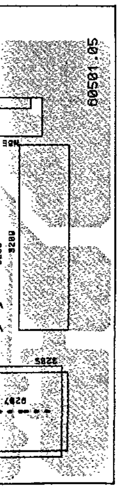
lter FL2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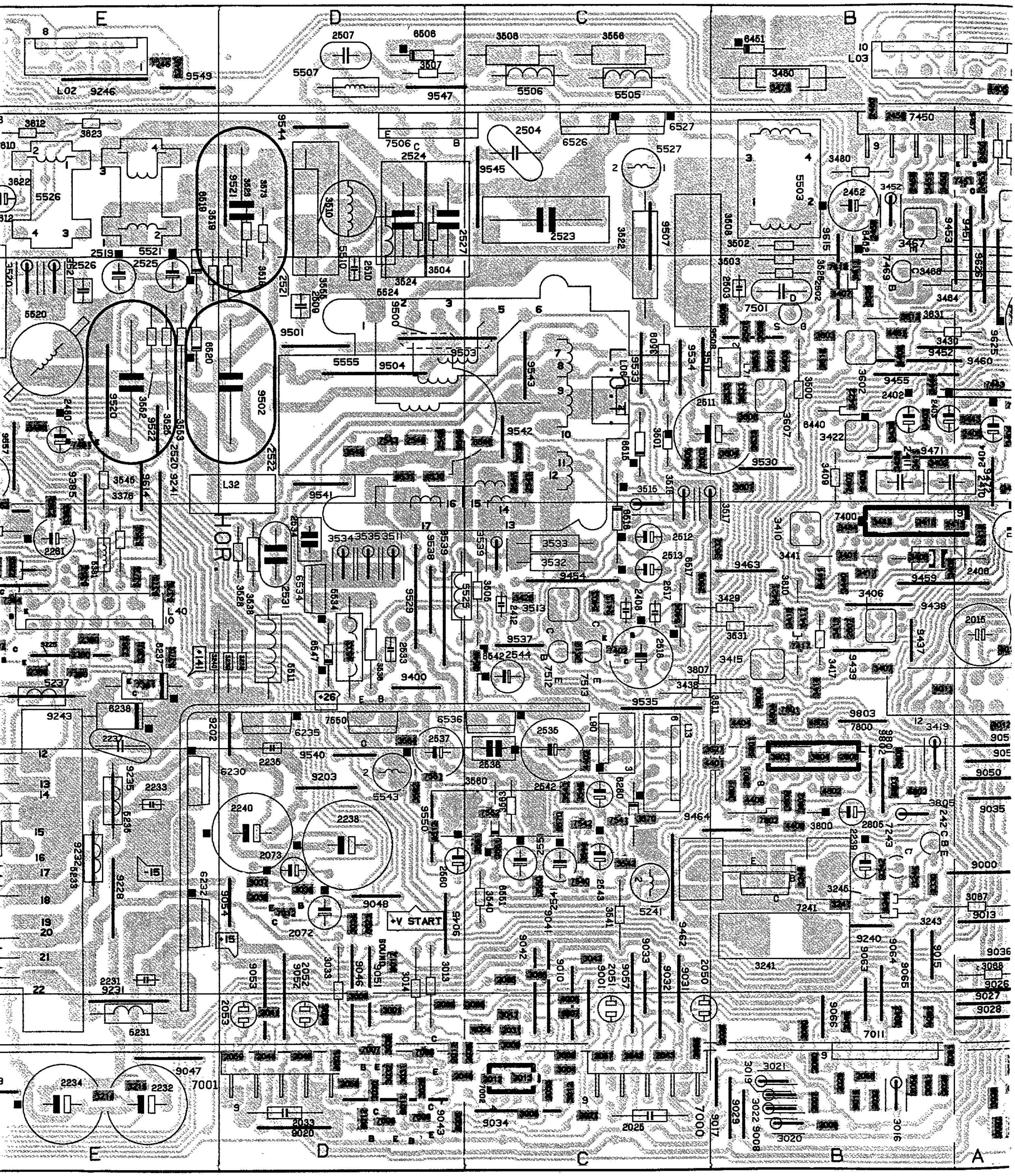
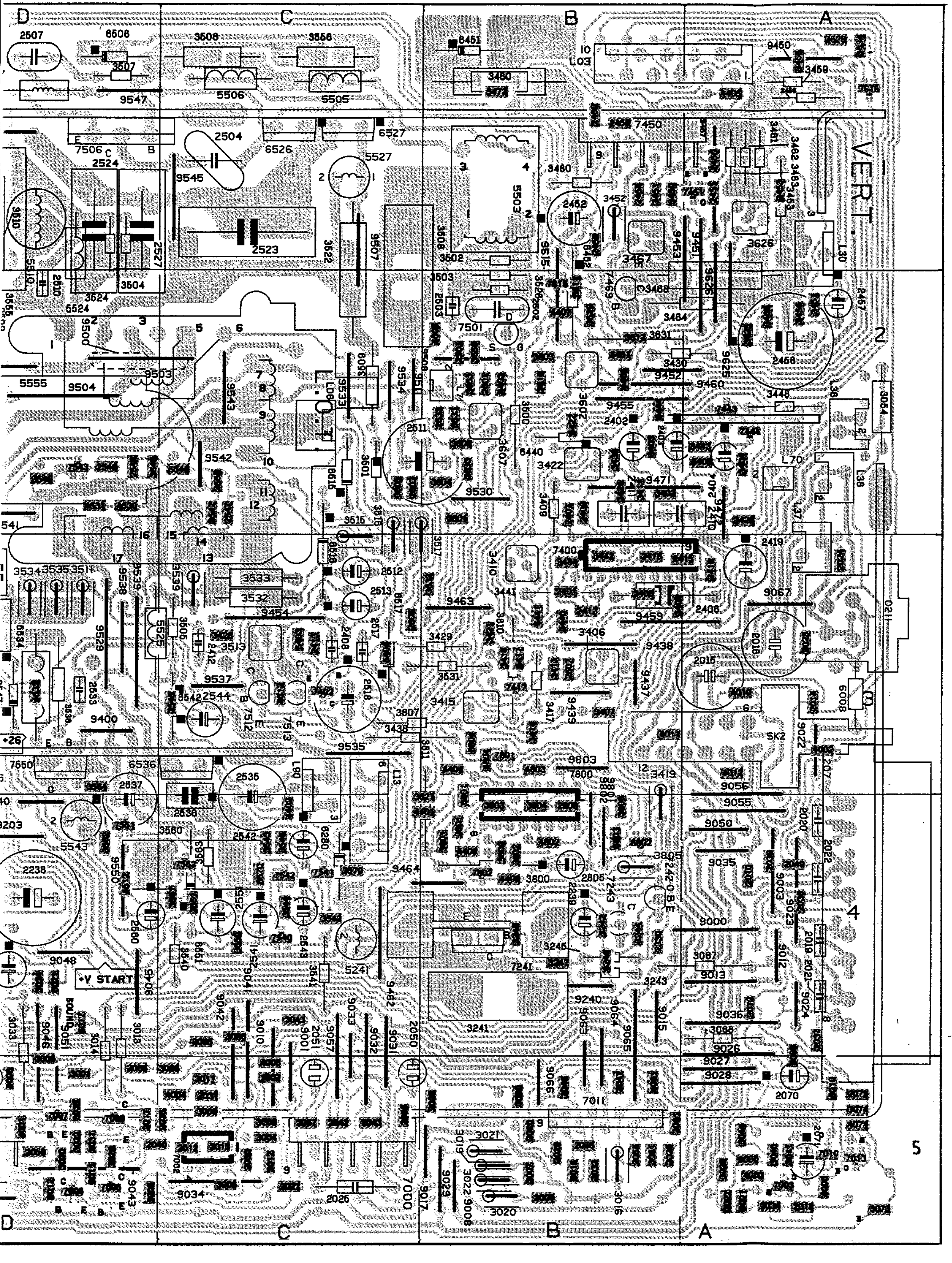
Platine forts signeaux FLx.24



gneaux FLx.24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5506
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5555
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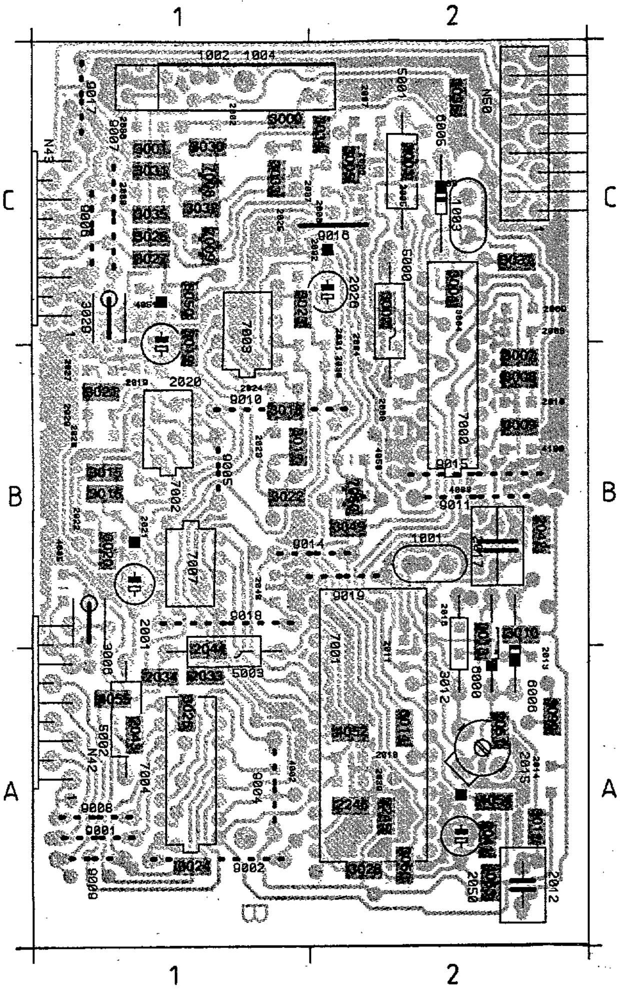
2016
2015
2070
2238

PCS 73 742

NICAM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2020
2050
2012

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N43	C1	2019	B1	2044	A1	3020	B1	4051	C1	9004	A1
N50	C2	2020	B1	2050	A2	3021	B1	4052	A2	9005	B1
1001	B2	2021	B1	2051	A2	3022	B1	4053	A2	9006	C1
1002	C1	2022	B1	2245	A2	3023	C1	4054	A2	9007	C1
1003	C2	2023	B1	2246	A2	3024	A1	4055	A1	9008	A1
1004	C1	2024	B1	3000	C1	3025	A1	4100	B2	9009	A1
2000	B2	2025	C1	3001	C1	3026	C1	5000	C2	9010	B1
2001	B1	2026	C2	3002	C2	3027	C1	5001	C2	9011	B2
2002	C1	2027	B1	3003	C2	3028	A2	5002	A1	9014	B2
2003	C2	2028	B1	3004	C2	3029	C1	5003	A1	9015	B2
2004	B2	2029	B1	3005	C2	3030	C1	6000	A2	9016	C2
2005	C2	2030	B2	3006	B1	3031	C1	6005	C2	9017	C1
2006	C2	2031	B2	3007	B2	3032	C1	6006	A2	9018	B1
2007	C2	2032	C1	3008	B2	3033	C1	6050	C1	9019	B2
2008	B2	2033	A1	3009	B2	3034	C2	7000	B2		
2009	C2	2034	A1	3010	A2	3035	C1	7001	A2		
2010	B2	2035	C2	3011	A2	3036	C2	7002	B1		
2011	A2	2036	C1	3012	A2	3037	C2	7003	B1		
2012	A2	2037	C1	3013	A2	3049	B2	7004	A1		
2013	A2	2038	C1	3014	A2	3050	A2	7007	B1		
2014	A2	2039	A2	3015	B1	3099	A2	7008	C1		
2015	A2	2040	B1	3016	B1	4002	A1	7009	C1		
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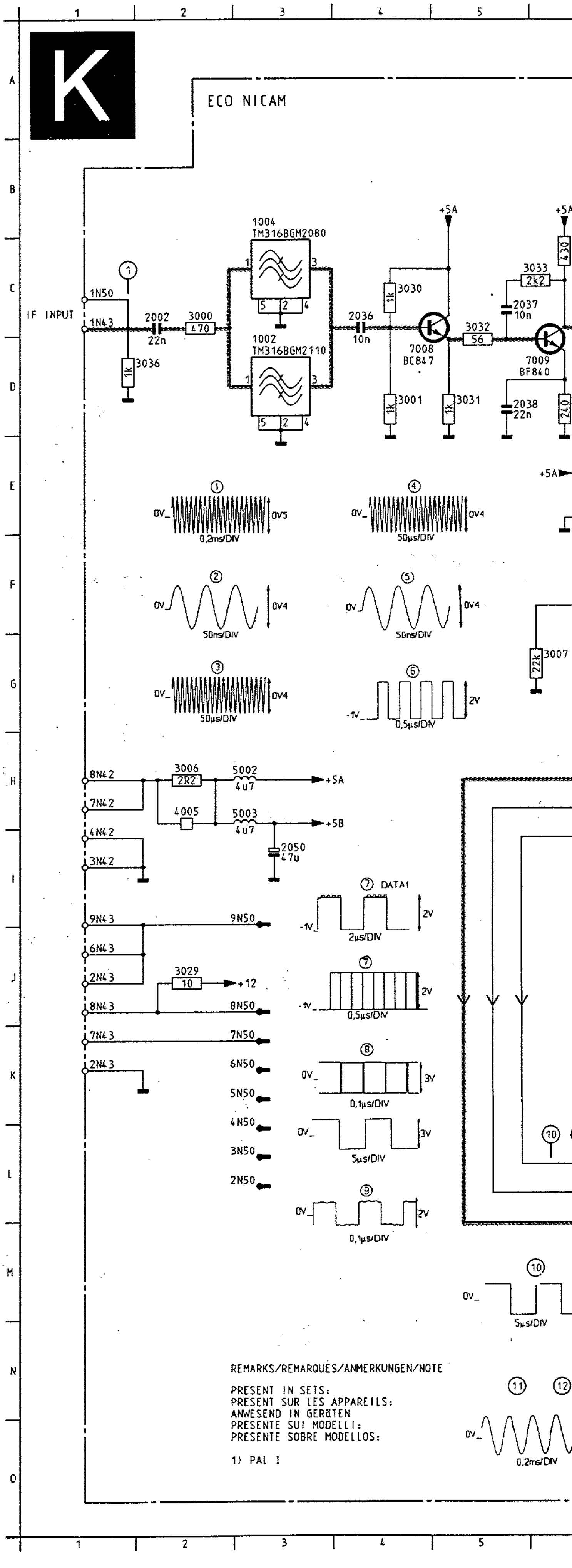
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1k
7008
BC847
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3033
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22n
7009
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7N42
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3N42
3006
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4005
5003
4u7
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+5B
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6N43
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3029
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0,2ms/DIV
0V4
50µs/DIV
50ns/DIV
0V4
50µs/DIV
50ns/DIV
0V4
2V
0,5µs/DIV
DATA1
2V
2µs/DIV
2V
0,5µs/DIV
3V
0,1µs/DIV
3V
5µs/DIV
2V
0,1µs/DIV
5µs/DIV
0,2ms/DIV
0V
-1V
A
B
C
D
E
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G
H
I
J
K
L
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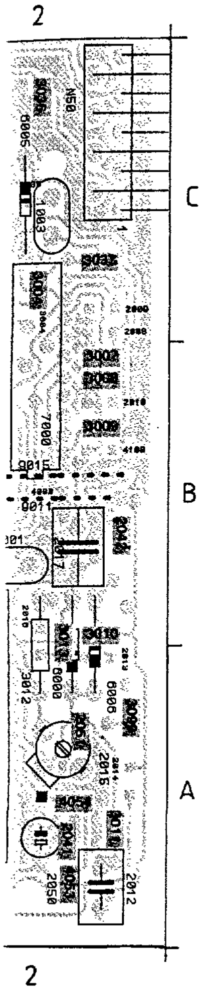
5

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I

NICAM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4054	A2
4055	A1
4100	B2
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5002	A1
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6000	A2
6005	C2
6006	A2
6050	C1
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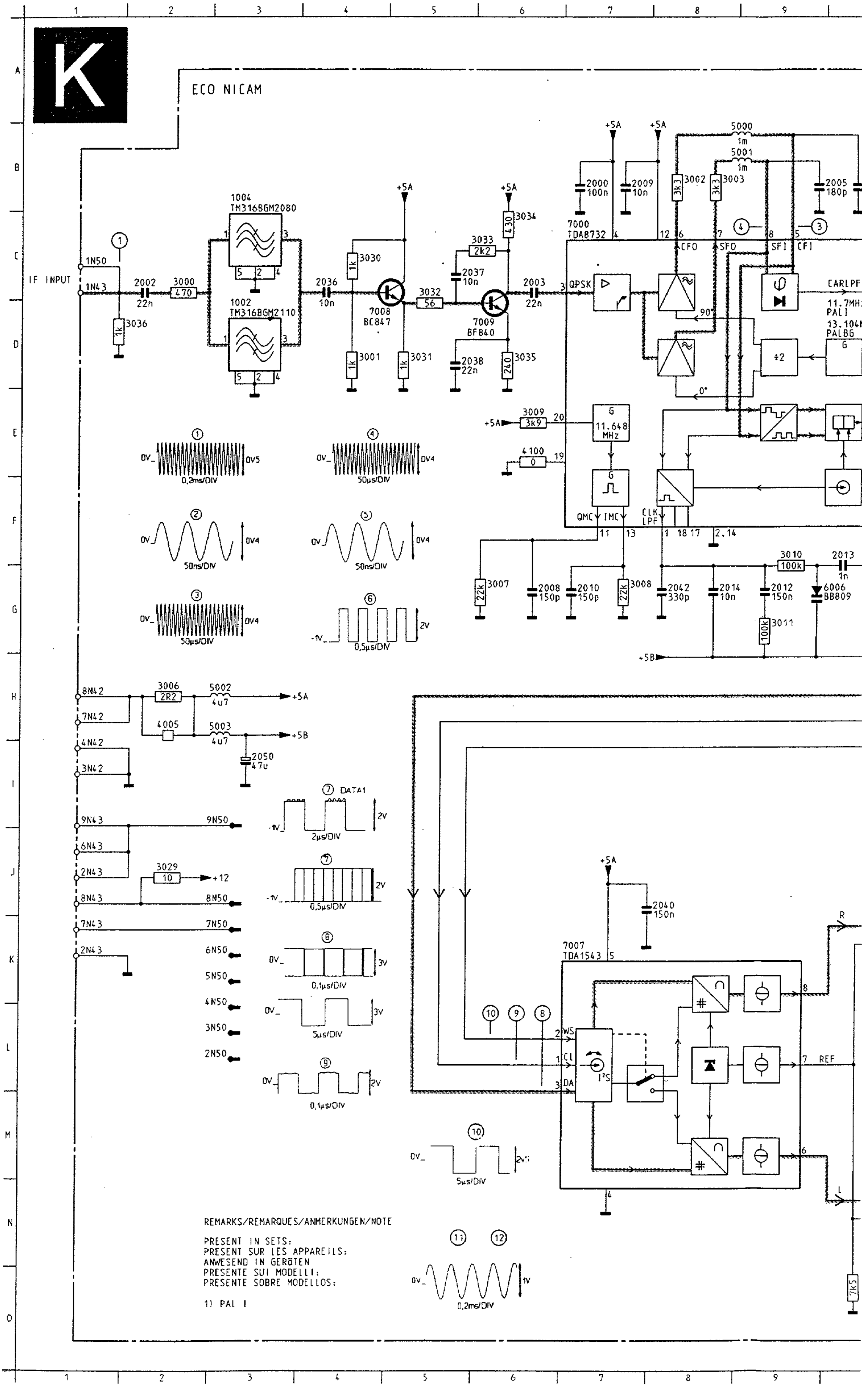
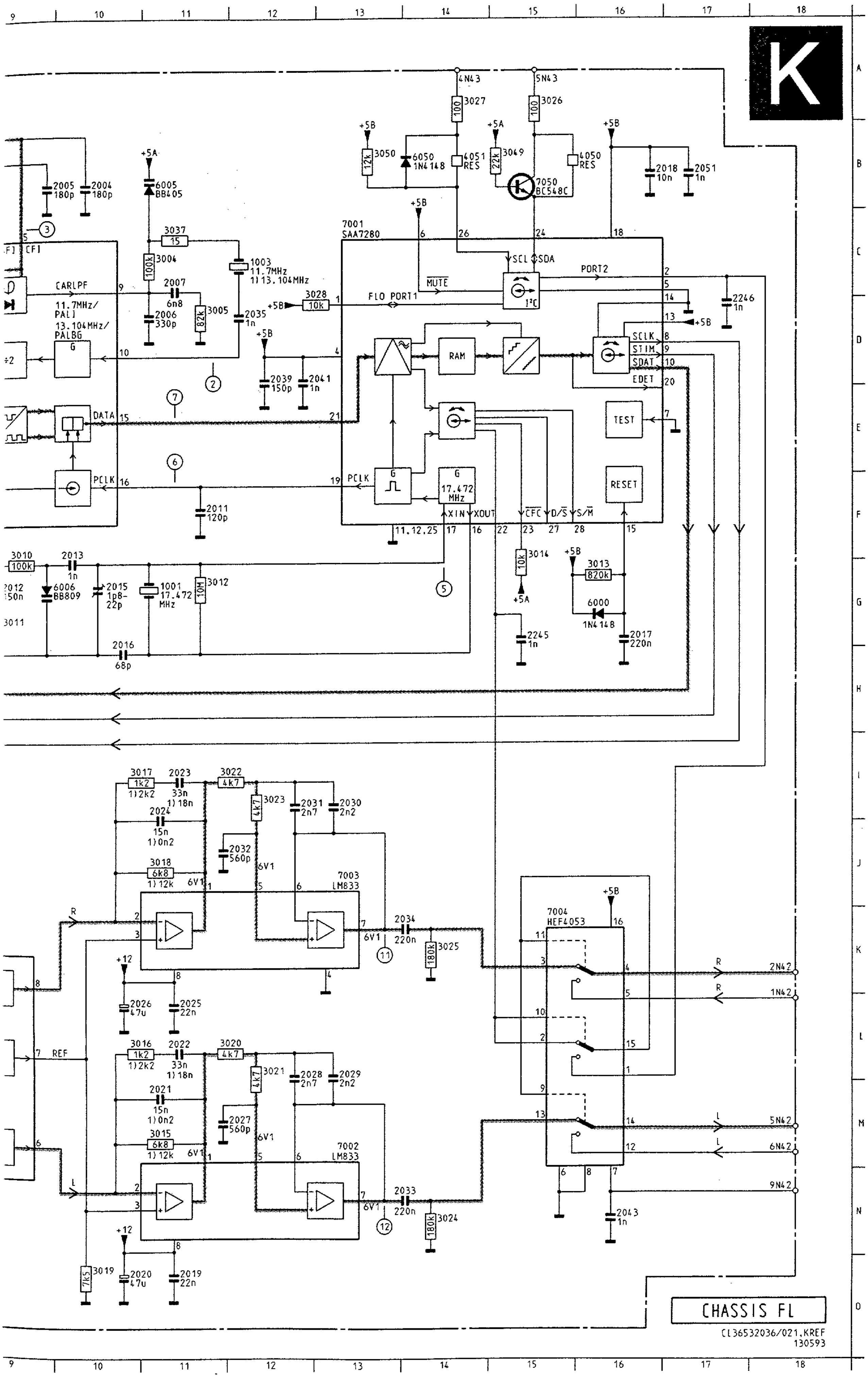

K
ECO NICAM
IF INPUT
1N50
1N43
2002 22n
3000 470
3036 1k
1004 TM316BGM2080
1002 TM316BGM2110
2036 10n
3030 1k
3001 1k
7008 BC847
3031 1k
3032 56
3033 2k2
2037 10n
2038 22n
7009 BF840
3034 430
3035 240
2003 22n
2000 100n
2009 10n
3002 3k3
3003 3k3
5000 1m
5001 1m
2005 180p
7000 TDA8732
QPSK
CFO
SFO
SFI
CFI
CARLPF
11.7MHz PAL I
13.104 PALBG
90°
0°
÷2
3009 3k9
4100 0
11.648 MHz
QMC
IMC
CLK LPF
3007 22k
2008 150p
2010 150p
3008 22k
2042 330p
2014 10n
2012 150n
3010 100k
2013 1n
6006 BB809
3011 100k
+5A
+5B
8N42
7N42
4N42
3N42
3006 2R2
5002 4u7
4005
5003 4u7
2050 47u
9N43
6N43
2N43
8N43
7N43
2N43
9N50
3029 10
+12
8N50
7N50
6N50
5N50
4N50
3N50
2N50
① 0V 0V5 0,2ms/DIV
② 0V 0V4 50ns/DIV
③ 0V 0V4 50µs/DIV
④ 0V 0V4 50µs/DIV
⑤ 0V 0V4 50ns/DIV
⑥ -1V 2V 0,5µs/DIV
⑦ DATA1 -1V 2V 2µs/DIV
⑦ -1V 2V 0,5µs/DIV
⑧ 0V 3V 0,1µs/DIV
0V 3V 5µs/DIV
⑨ 0V 2V 0,1µs/DIV
⑩ 0V 2V5 5µs/DIV
⑪ ⑫ 0V 1V 0,2ms/DIV
2040 150n
7007 TDA1543
WS
CL
DA
I²S
R
REF
L
7k5
1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

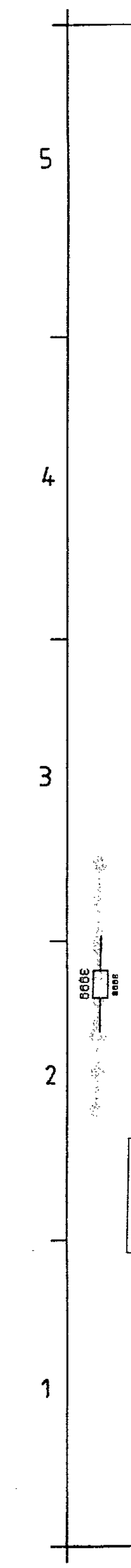
1) PAL I

NICAM


K
7001 SAA7280
7003 LM833
7002 LM833
7004 HEF4053
7050 BC548C
6050 1N4148
6005 BB405
6006 BB809
6000 1N4148
1003 11.7MHz 1) 13.104MHz
1001 17.472 MHz
RAM
TEST
RESET
G 17.472 MHz
I²C
SCL SDA PORT2
MUTE
FLO PORT1
SCLK STIM SDAT EDET
CFC D/S S/M
XIN XOUT
11.12.25
CARLPF
11.7MHz/ PALI
13.104MHz/ PALBG
DATA
PCLK
CFI
REF
R
L
4N43 5N43 2N42 1N42 5N42 6N42 9N42
+5A +5B +12
6V1
CHASSIS FL
CL 36532036/021.KREF 130593

1001	G11
1002	D 3
1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	O11
2020	O10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	O10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
4005	H 2
4050	B16
4051	B14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15

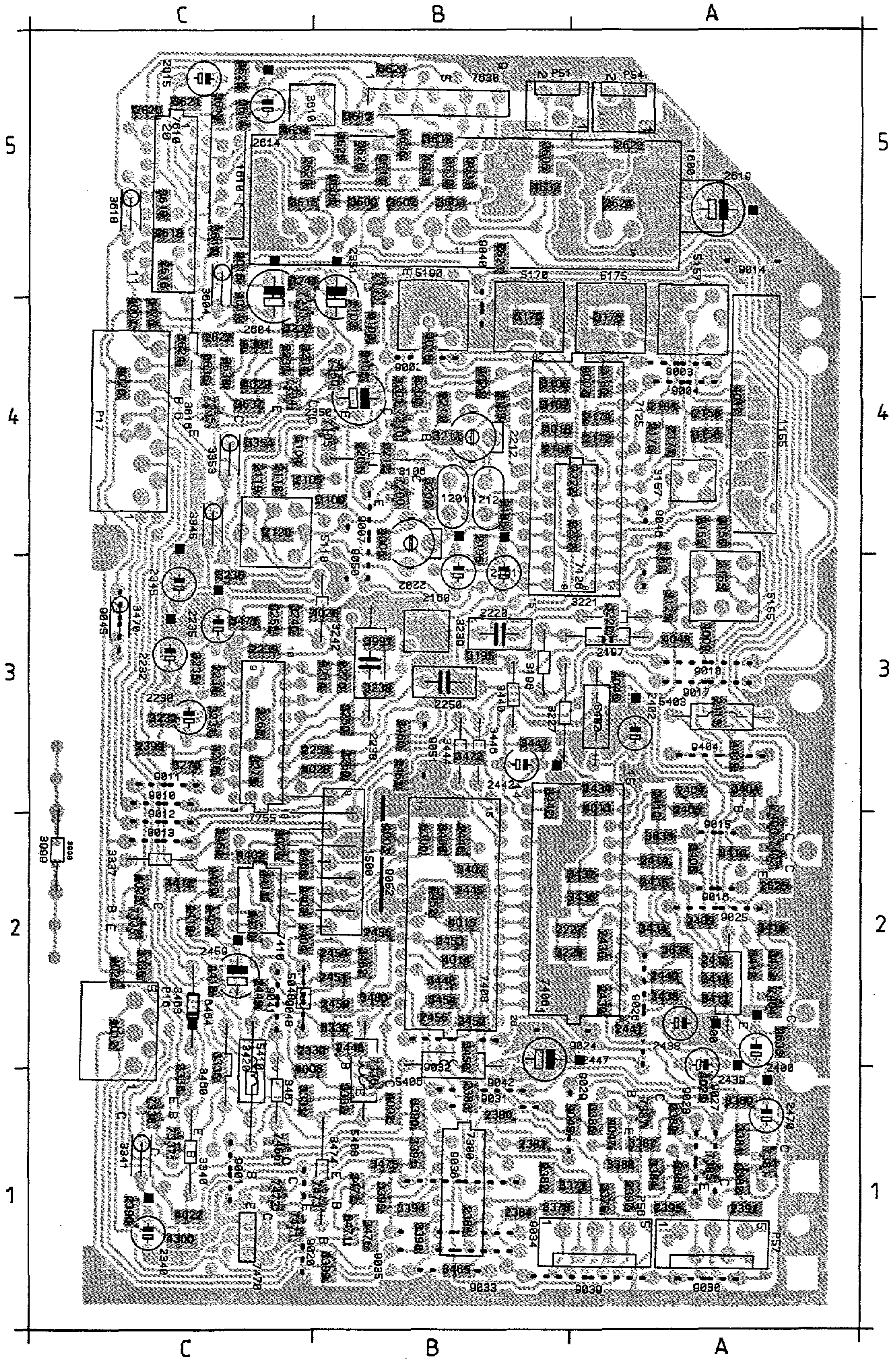
PIP p



P16	C2	21
P17	C4	21
P51	B5	21
P54	A5	21
P56	A1	21
P57	A1	21
1155	A4	21
1201	B4	21
1212	B4	21
1500	B2	21
1600	B5	21
1610	C5	21
2103	B4	21
2105	C4	21
2118	C4	21
2119	C4	21

PIP panel

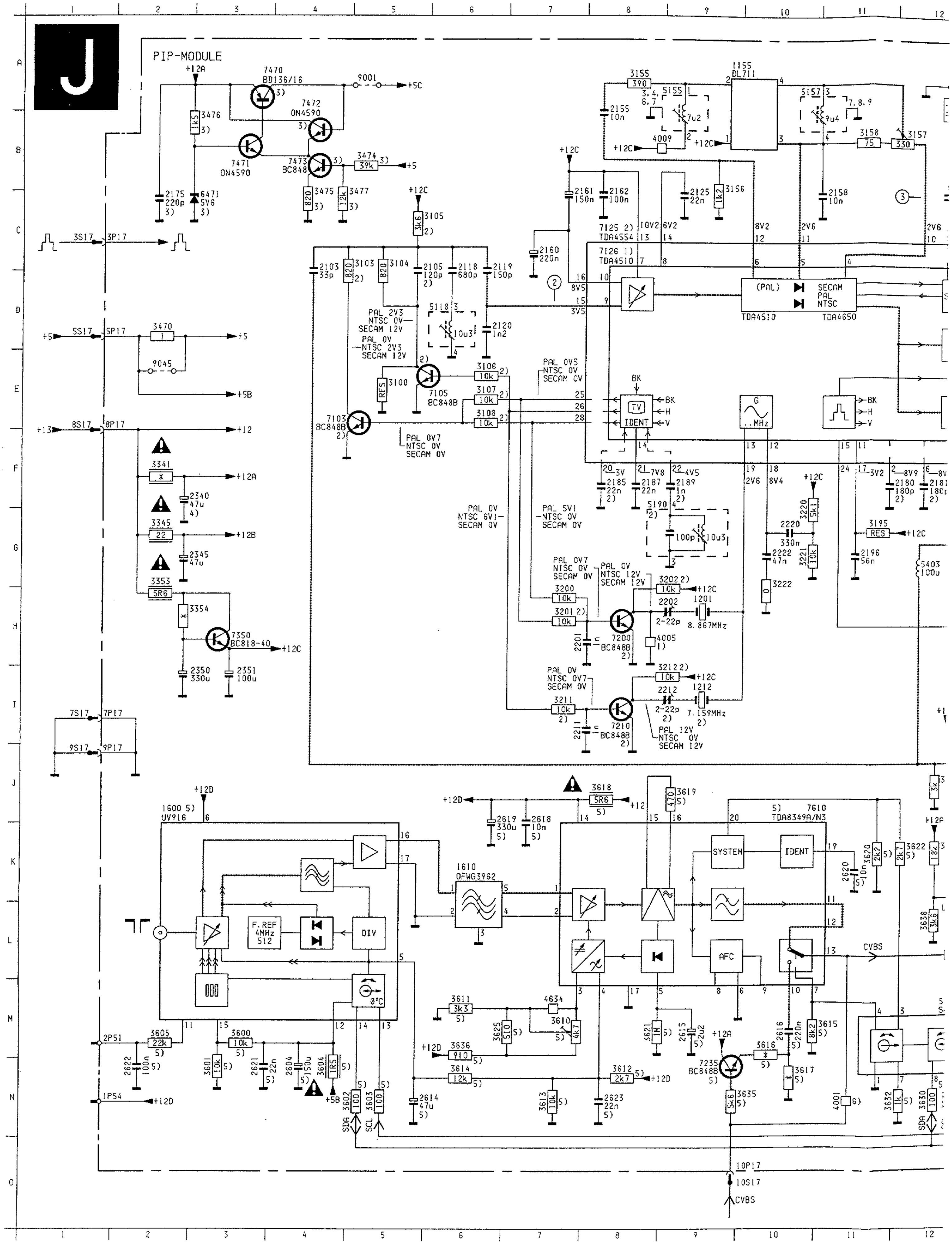
1001	G11
1002	D 3
1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	D11
2020	D10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	D10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
4005	H 2
4050	B16
4051	B14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15



P16	C2	2120	C4	2196	B4	2251	C3	2391	A1	2438	A2	2456	B2	2624	A5	3195	B3	3234	C4
P17	C4	2125	A3	2197	A3	2255	C3	2395	A1	2439	A2	2459	C2	2625	A2	3196	B3	3235	C3
P51	B5	2155	A4	2201	B4	2260	B3	2397	A1	2440	A2	2460	B3	2627	C4	3200	B4	3236	C3
P54	A5	2158	A4	2202	B4	2270	B3	2399	C3	2441	A2	2461	B3	3100	B4	3201	B4	3237	C4
P56	A1	2160	B3	2211	B4	2330	C2	2400	A2	2442	B3	2466	C2	3103	B4	3202	B4	3238	B3
P57	A1	2161	B3	2212	B4	2340	C1	2402	A3	2445	B2	2470	A1	3104	C4	3211	B4	3239	B3
1155	A4	2162	A3	2220	B3	2345	C3	2404	A3	2446	B2	2604	C4	3105	B4	3212	B4	3240	C3
1201	B4	2171	A4	2222	B4	2350	B4	2405	A2	2447	B2	2614	C5	3106	B4	3214	B3	3241	C5
1212	B4	2172	A4	2227	B2	2351	B4	2409	A2	2448	B2	2615	C5	3107	B4	3220	A3	3242	B3
1500	B2	2176	A4	2230	C3	2380	B1	2410	A3	2449	C2	2616	C5	3108	B4	3221	A3	3250	B3
1600	B5	2177	A4	2232	C3	2381	B1	2413	A3	2450	B2	2618	C5	3155	A3	3222	B4	3265	C3
1610	C5	2180	A4	2234	C3	2382	B1	2414	A2	2451	B2	2619	A5	3156	A4	3227	B3	3270	C3
2103	B4	2181	A4	2235	C3	2383	B1	2415	A2	2452	B2	2620	C5	3157	A4	3228	B2	3275	C3
2105	C4	2185	B4	2238	B3	2384	B1	2430	A2	2453	B2	2621	B5	3158	A4	3231	C3	3276	C3
2118	C4	2187	B4	2239	C3	2385	B1	2432	A2	2454	B2	2622	A5	3170	B4	3232	C3	3330	B2
2119	C4	2189	B4	2250	B3	2390	C1	2434	A3	2455	B2	2623	C5	3175	A4	3233	C4	3331	C1

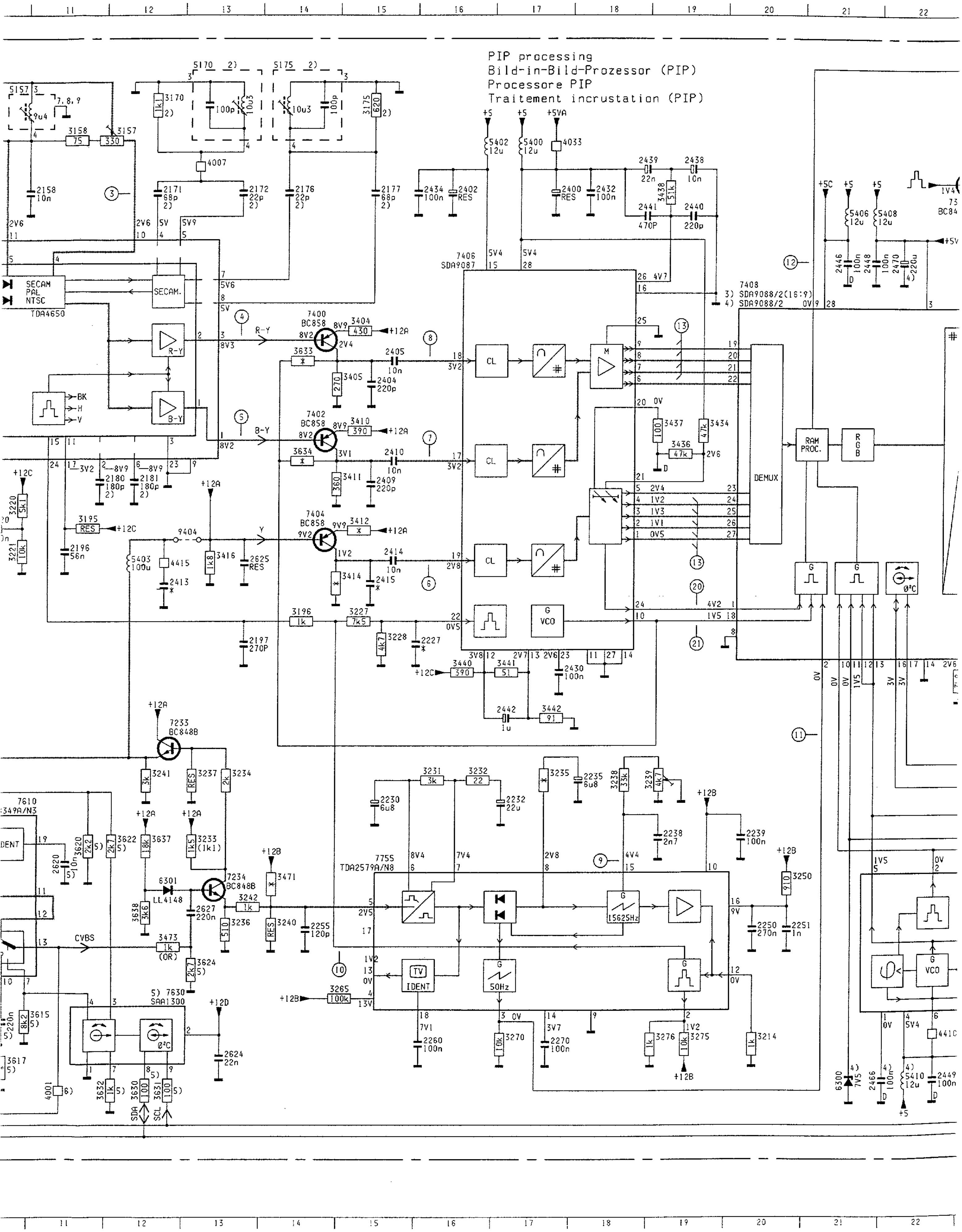
3332	B1	3636	B5	7473	B1
3335	C2	3637	C4	7610	C5
3336	C1	3638	C4	7630	B5
3337	C2	3997	B3	7755	C3
3338	C1	4001	C4	9001	C1
3340	C1	4002	B1	9002	B4
3341	C1	4003	B2	9003	A4
3345	C4	4005	B4	9004	A4
3353	C4	4007	A4	9007	B4
3354	C4	4008	C1	9010	C2
3376	A1	4009	A3	9011	C3
3377	A1	4011	C4	9012	C2
3378	B1	4012	C2	9013	C2
3380	A1	4013	A3	9014	A5
3381	A1	4014	B2	9015	A2
3382	A1	4015	B2	9016	A2
3383	A1	4016	C5	9017	A3
3384	A1	4017	A4	9018	A3
3385	A1	4018	B4	9020	C1
3386	A1	4019	B4	9024	B2
3387	A1	4020	C4	9025	A2
3388	A1	4021	B4	9026	A2
3390	B1	4022	C1	9027	A1
3391	B1	4023	A1	9028	A1
3394	B1	4024	C2	9029	A1
3395	B1	4025	C2	9030	A1
3398	B1	4026	B3	9031	B1
3399	B1	4027	C2	9032	B2
3404	A3	4028	C3	9033	B1
3405	A2	4029	C4	9034	B1
3406	B2	4046	A3	9035	B1
3407	B2	4047	A1	9036	B1
3410	A2	4048	A3	9039	A1
3411	A2	4049	A1	9040	B4
3412	A2	4300	C1	9041	C2
3413	A2	4402	C2	9042	B1
3414	A2	4403	C2	9045	C3
3416	A2	4404	C2	9046	A4
3420	C1	4410	C2	9048	C2
3434	A2	4411	C2	9050	B3
3435	A2	4415	A3	9051	B3
3436	A2	4417	C2	9052	B2
3437	A2	4418	C2	9404	A3
3438	A2	4419	C2		
3440	B3	4420	C2		
3441	B3	4421	C2		
3442	B3	4631	B5		
3444	B3	4632	B5		
3446	B3	4633	A2		
3448	B2	4634	C5		
3450	B2	5048	C2		
3452	B2	5118	C4		
3454	B2	5155	A3		
3460	C1	5157	A4		
3462	B2	5170	B4		
3463	C2	5175	A4		
3464	C2	5190	B4		
3465	B1	5400	A2		
3467	C1	5402	A3		
3471	C3	5403	A3		
3472	B3	5406	B1		
3473	C4	5408	B1		
3474	B1	5410	C1		
3475	B1	6300	B2		
3476	B1	6301	C4		
3477	B1	6464	C2		
3480	B2	6471	B1		
3600	B5	7103	B5		
3601	B5	7105	B4		
3602	B5	7125	B4		
3603	B5	7126	B4		
3604	C4	7200	B4		
3605	B5	7210	B4		
3610	C5	7233	C4		
3611	B5	7234	C4		
3612	B5	7235	C4		
3613	C5	7330	B1		
3614	C5	7335	C2		
3615	C5	7337	C1		
3616	C4	7338	C1		
3617	C5	7350	B4		
3618	C5	7380	B1		
3619	C5	7381	A1		
3620	C5	7385	A1		
3621	C5	7387	A1		
3622	B5	7400	A2		
3624	C4	7402	A2		
3625	B5	7404	A2		
3626	B5	7406	A2		
3630	B5	7408	B2		
3631	B5	7410	C2		
3632	B5	7466	C1		
3633	A2	7470	C1		
3634	A2	7471	C1		
3635	C4	7472	C1		

Picture in picture / Bild im Bild / Ima


J
PIP-MODULE
7470 BD136/16
7471 0N4590
7472 0N4590
7473 BC848
9001
+5C
+12A
3476 1k5
3474 39k
3475 820
3477 12k
2175 220p
6471 5V6
3S17 3P17
5S17 5P17
3470
9045
+5
+5B
8S17 8P17
+13
+12
3341
2340 47u
3345 22
+12B
2345 47u
3353 5R6
3354
7350 BC818-40
+12C
2350 330u
2351 100u
7S17 7P17
9S17 9P17
3105 3k6
2103 33p
3103 820
3104 820
2105 120p
2118 680p
2119 150p
2120 1n2
5118 10u3
PAL 2V3 NTSC 0V SECAM 12V
PAL 0V NTSC 2V3 SECAM 12V
3100 RES
7105 BC848B
7103 BC848B
3106 10k
3107 10k
3108 10k
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V5 NTSC 0V SECAM 0V
2161 150n
2162 100n
2160 220n
7125 TDA4554
7126 TDA4510
3155 390
1155 DL711
5155 7u2
5157 9u4
2155 10n
4009
2125 22n
3156 1k2
2158 10n
3158 75
3157 330
(PAL)
SECAM PAL NTSC
TDA4510
TDA4650
BK H V
IDENT
G ..MHz
2185 22n
2187 22n
2189 1n
5190 100p 10u3
PAL 0V NTSC 6V1 SECAM 0V
PAL 5V1 NTSC 0V SECAM 0V
2220 330n
2222 47n
3222 0
3220 5k1
3221 10k
3195 RES
2196 56n
2180 180p
2181 180p
5403 100u
3200 10k
3201 10k
3202 10k
2202 2-22p
1201 8.867MHz
4005
2201
7200 BC848B
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V NTSC 12V SECAM 12V
3211 10k
3212 10k
2212 2-22p
1212 7.159MHz
2211
7210 BC848B
PAL 0V NTSC 0V7 SECAM 0V
PAL 12V NTSC 0V SECAM 12V
1600 UV916
+12D
F.REF 4MHz 512
DIV
0°C
1610 OFWG3962
3618 5R6
3619 470
2619 330u
2618 10n
7610 TDA8349A/N3
SYSTEM
IDENT
AFC
CVBS
3620 2k2
2620 10n
3622 2k7
3638 3k6
2P51
3605 22k
2622 100n
3600 10k
3601 10k
2621 22n
2604 150u
3604 1R5
3602 100
3603 100
SDA SCL
+5B
1P54
2614 47u
3611 3k3
4634
3610 4k7
3625 510
3636 910
3614 12k
3613 10k
3612 2k7
2623 22n
3621 1M
2615 2u2
7235 BC848B
3635 5k6
3616
3617
2616 220n
3615 8k2
4001
3632 1k
3630 100
10P17
10S17
CVBS

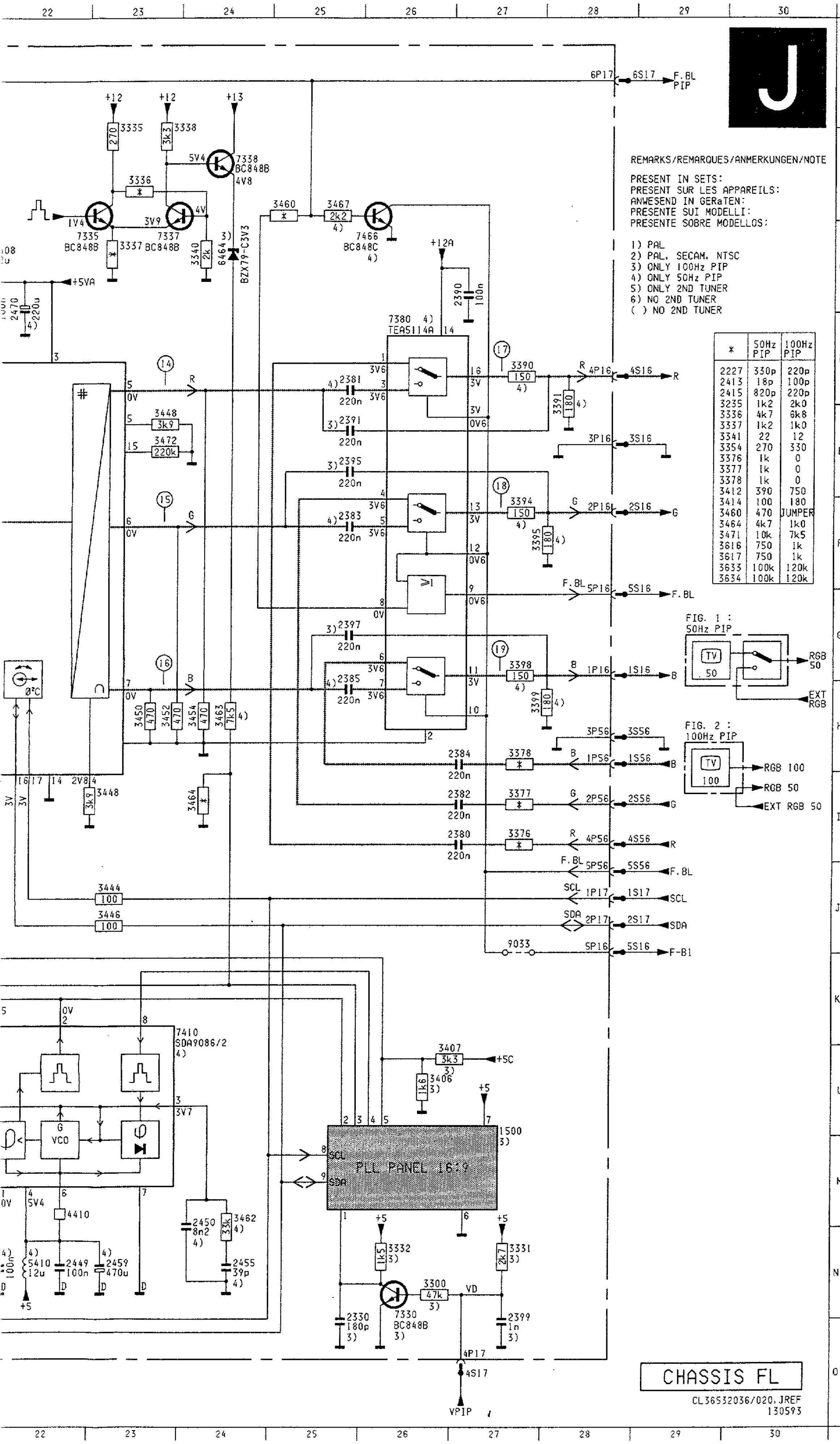
21

Image dans l'image



PIP processing
Bild-in-Bild-Prozessor (PIP)
Processore PIP
Traitement incrustation (PIP)

11
12
13
14
15
16
17
18
19
20
21
22
5170 2)
5175 2)
5157
7, 8, 9
9u4
3170
1k1
100p
10u3
3175
620
3158
75
3157
330
4007
2158
10n
2171
68p
2172
22p
2176
22p
2177
68p
SECAM
PAL
NTSC
TDA4650
SECAM.
R-Y
B-Y
BK
H
V
3195
RES
+12C
3220
5k1
3221
10k
2196
56n
2180
180p
2181
180p
+12A
9404
5403
100u
4415
2413
3416
1k8
2625
RES
2197
270P
3196
1k
3227
7k5
3228
4k7
2227
7400
BC858
3404
430
3633
2405
10n
3405
270
2404
220p
7402
BC858
3410
390
3634
2410
10n
3411
360
2409
220p
7404
BC858
3412
2414
10n
3414
2415
+5
+5VA
5402
12u
5400
12u
4033
2434
100n
2402
RES
2400
RES
2432
100n
2439
22n
2438
10n
3438
51k
2441
470P
2440
220p
7406
SDA9087
CL
VCO
M
3437
100
3434
47k
3436
47k
3440
390
3441
51
2430
100n
2442
1u
3442
91
7408
3) SDA9088/2(16:9)
4) SDA9088/2
DEMUX
RAM PROC.
R G B
0°C
+5C
5406
12u
5408
12u
2446
100n
2448
100n
2470
220u
7233
BC848B
3241
3k
3237
RES
3234
2k
7610
349A/N3
IDENT
3620
2k2
3622
2k7
3637
18k
3233
1k5
(1k1)
2620
10n
6301
LL4148
7234
BC848B
3638
3k6
2627
220n
3242
1k
3236
510
3471
3240
RES
2255
120p
CVBS
3473
1k
(OR)
3624
2k7
3615
8k2
3617
7630
SAA1300
+12D
2624
22n
4001
3632
1k
3630
100
3631
100
SDA
SCL
3231
3k
3232
22
2230
6u8
2232
22u
3235
2235
6u8
3238
33k
3239
4k7
+12B
2238
2n7
2239
100n
7755
TDA2579A/N8
15625Hz
TV IDENT
50Hz
3265
100k
2260
100n
3270
10k
2270
100n
3276
1k
3275
10k
3214
1k
3250
910
2250
270n
2251
1n
6300
7V5
2466
100n
5410
12u
2449
100n
4410
VCO


22
23
24
25
26
27
28
29
30
J
+12
+12
+13
3335
270
3338
3k3
5V4
7338
BC848B
4V8
3336
1V4
7335
BC848B
3V9
4V
7337
BC848B
3337
3340
2k
6464
BZX79-C3V3
3460
3467
2k2
7466
BC848C
6P17
6S17
F.BL
PIP
+12A
2390
100n
+5VA
2470
220u
7380
TEA5114A
14
R
G
B
3390
150
3391
180
4P16
4S16
3P16
3S16
2381
220n
2391
220n
2395
220n
2383
220n
3394
150
3395
180
2P16
2S16
F.BL
5P16
5S16
2397
220n
2385
220n
3398
150
3399
180
1P16
1S16
3448
3k9
3472
220k
3450
470
3452
470
3454
470
3463
7k5
3464
0°C
3P56
3S56
2384
220n
3378
1P56
1S56
2382
220n
3377
2P56
2S56
2380
220n
3376
4P56
4S56
5P56
5S56
3444
100
3446
100
SCL
1P17
1S17
SDA
2P17
2S17
9033
5P16
5S16
F-B1
FIG. 1 :
50Hz PIP
TV
50
RGB 50
EXT RGB
FIG. 2 :
100Hz PIP
TV
100
RGB 100
RGB 50
EXT RGB 50
7410
SDA9086/2
VCO
3V7
4410
5410
12u
2449
100n
2459
470u
2450
8n2
3462
33k
2455
39p
3407
3k3
+5C
3406
1k6
+5
1500
PLL PANEL 16:9
SCL
SDA
3332
1k5
3331
2k7
7330
BC848B
3300
47k
VD
2330
180p
2399
1n
4P17
4S17
VPIP

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERaTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL
2) PAL, SECAM, NTSC
3) ONLY 100Hz PIP
4) ONLY 50Hz PIP
5) ONLY 2ND TUNER
6) NO 2ND TUNER
( ) NO 2ND TUNER

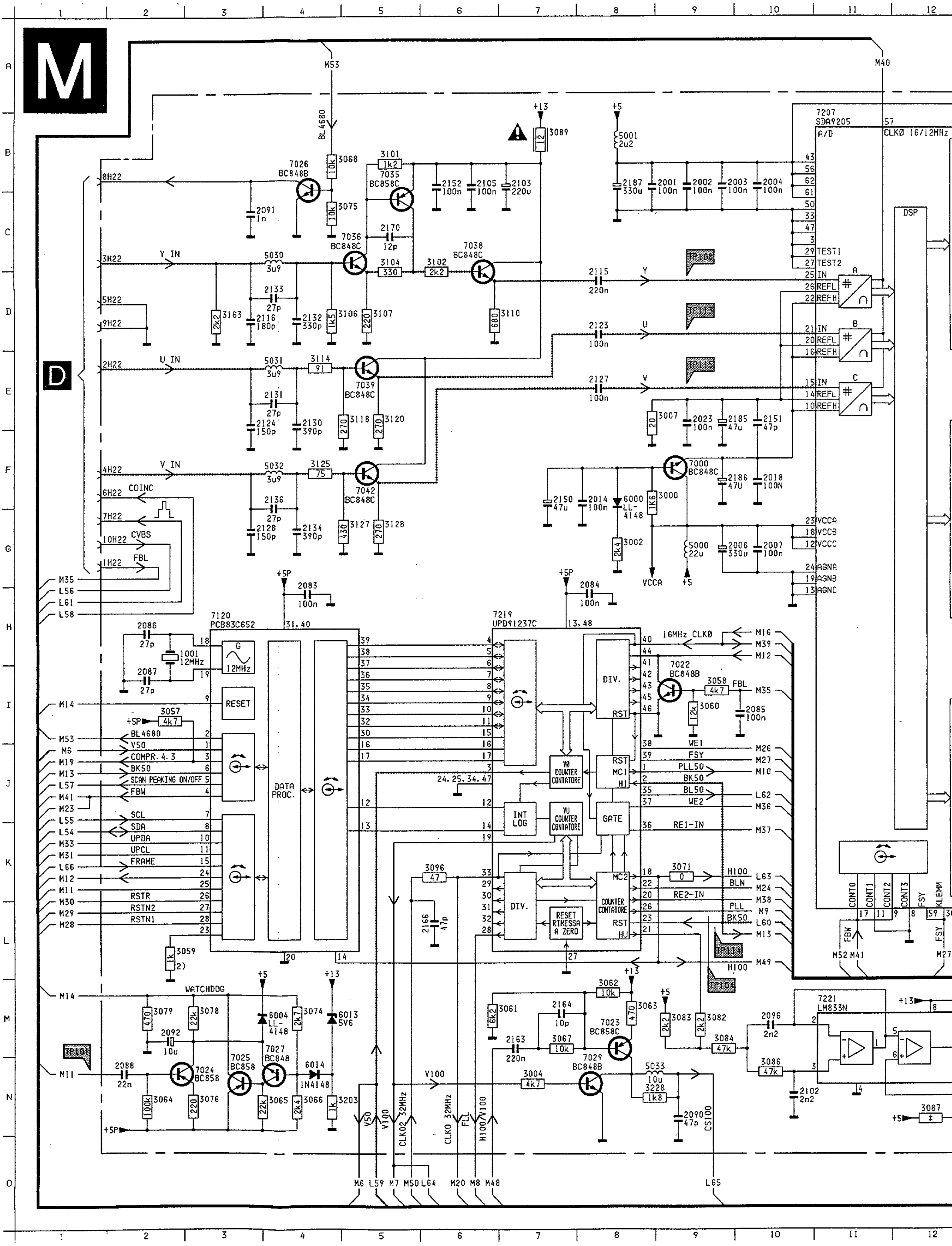
*	50Hz PIP	100Hz PIP
2227	330p	220p
2413	18p	100p
2415	820p	220p
3235	1k2	2k0
3336	4k7	6k8
3337	1k2	1k0
3341	22	12
3354	270	330
3376	1k	0
3377	1k	0
3378	1k	0
3412	390	750
3414	100	180
3460	470	JUMPER
3464	4k7	1k0
3471	10k	7k5
3616	750	1k
3617	750	1k
3633	100k	120k
3634	100k	120k

CHASSIS FL

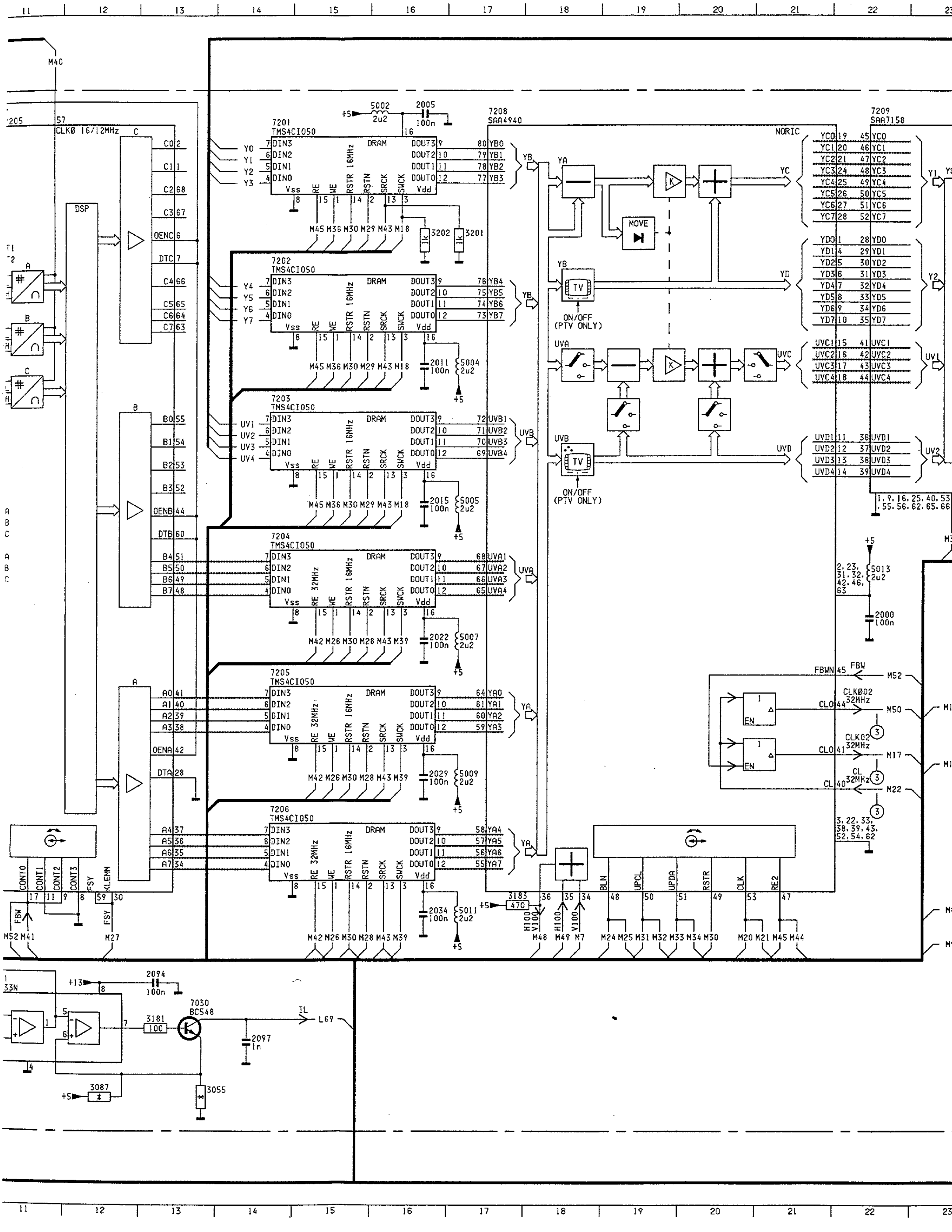
CL36532036/020.JREF
130593

1155	A 9
1201	H 9
1212	I 9
1500	L27
1600	J 2
1610	K 6
2103	D 4
2105	D 5
2118	D 6
2119	D 6
2120	D 6
2125	C 9
2155	B 8
2158	C11
2160	C 7
2161	C 7
2162	C 8
2171	C12
2172	C13
2175	C 2
2176	C14
2177	C15
2180	F11
2181	F12
2185	F 8
2187	F 8
2189	F 9
2196	G11
2197	H13
2201	H 7
2202	H 9
2211	I 7
2212	I 9
2220	G10
2222	G10
2227	H16
2230	J15
2232	J17
2235	J18
2238	K19
2239	K20
2250	L20
2251	L20
2255	L14
2260	M16
2270	M17
2330	O25
2340	F 2
2345	G 2
2350	I 2
2351	I 3
2380	I27
2381	D25
2382	I27
2383	F25
2384	H27
2385	H25
2390	C27
2391	E25
2395	E25
2397	G25
2399	O27
2400	C17
2402	C16
2404	E15
2405	E15
2409	F15
2410	F15
2413	H12
2414	G15
2415	H15
2430	I17
2432	C18
2434	C16
2438	B19
2439	B18
2440	C19
2441	C18
2442	I17
2446	C21
2448	C21
2449	N22
2450	M24
2455	N24
2459	N23
2466	N21
2470	C22
2604	N 4
2614	N 5
2615	M 9
2616	M10
2618	K 7
2619	K 6
2620	K11
2621	N 3
2622	N 2
2623	N 8
2624	N13
2625	G13
2627	L13
3100	E 5
3103	C 5
3104	C 5
3105	C 5
3106	E 6
3107	E 6
3108	E 6
3155	A 8
3156	B 9
3157	B12
3158	B11
3170	A12
3175	A15
3195	G11
3196	H14
3200	H 7
3201	H 7
3202	G 9
3211	I 7
3212	I 9
3214	M20
3220	G10
3221	G10
3222	G10
3227	H15
3228	H15
3231	J16
3232	J16
3233	K13
3234	J13
3235	J17
3236	L13
3237	J13
3238	J18
3239	J19
3240	L14
3241	J12
3242	L13
3250	K20
3265	M15
3270	M17
3275	M19
3276	M19
3300	N26
3331	N27
3332	N26
3335	A23
3336	B23
3337	C23
3338	A23
3340	C24
3341	F 2
3345	G 2
3353	G 2
3354	H 2
3376	I27
3377	I27
3378	H27
3390	D27
3391	D28
3394	F27
3395	F27
3398	G27
3399	H27
3404	D15
3405	E15
3406	L26
3407	L26
3410	F15
3411	F15
3412	G15
3414	G15
3416	G13
3434	E19
3436	F19
3437	E19
3438	C19
3440	I16
3441	I17
3442	I17
3444	J23
3446	J23
3448	E23
3448	I23
3450	H23
3452	H23
3454	H24
3460	B25
3462	M24
3463	H24
3464	I24
3467	B25
3470	D 2
3471	K14
3472	E23
3473	L12
3474	B 5
3475	B 4
3476	B 3
3477	B 4
3600	M 3
3601	N 3
3602	N 5
3603	N 5
3604	N 4
3605	M 2
3610	M 7
3611	M 6
3612	N 8
3613	N 7
3614	N 6
3615	M11
3616	M10
3617	N10
3618	J 8
3619	J 9
3620	K11
3621	M 8
3622	K12
3624	L13
3625	M 6
3630	N12
3631	N12
3632	N12
3633	E14
3634	F14
3635	N10
3636	M 6
3637	K12
3638	L12
4001	N11
4005	H 8
4007	B13
4009	B 8
4033	B17
4410	M22
4415	G12
4634	M 7
5118	D 5
5155	A 8
5157	A10
5170	A13
5175	A14
5190	G 8
5400	B17
5402	B16
5403	G12
5406	C21
5408	C21
5410	N22
6300	N21
6301	K12
6464	C24
6471	C 3
7103	E 4
7105	E 5
7125	C 8
7126	C 8
7200	H 8
7210	I 8
7233	I12
7234	K13
7235	N 9
7330	N26
7335	C23
7337	C23
7338	B24
7350	H 3
7380	D26
7400	D14
7402	E14
7404	G14
7406	C16
7408	D20
7410	K23
7466	C26
7470	A 3
7471	B 3
7472	A 4
7473	B 4
7610	J11
7630	M13
7755	K15
9001	A 5
9033	J27
9045	E 2
9404	G13

LFR box FLx.24/.26 (Digital Scan)

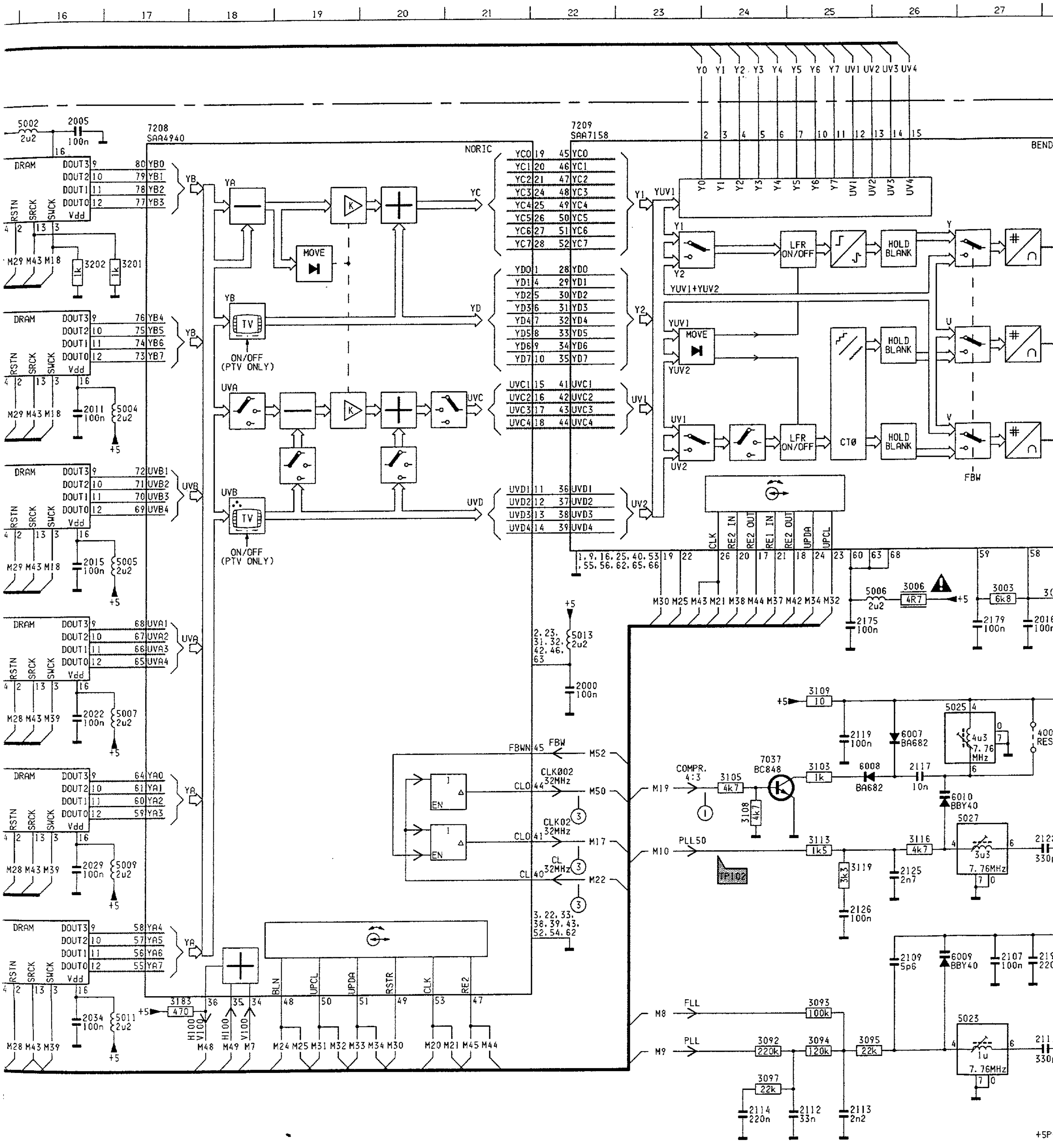

M
D
M53
M40
BL4680
3068 10k
3075 10k
7026 BC848B
3101 1k2
7035 BC858C
2152 100n
2105 100n
2103 220u
+13
3089
+5
5001 2u2
7207 SDA9205
A/D
57 CLK0 16/12MHz
2187 330u
2001 100n
2002 100n
2003 100n
2004 100n
DSP
8H22
2091 1n
3H22
Y_IN
5030 3u9
7036 BC848C
2170 12p
3104 330
3102 2k2
7038 BC848C
2133 27p
2116 180p
2132 330p
3163 2k2
3106 1k5
3107 220
3110 680
2115 220n
Y
TP108
TEST1
TEST2
IN
REFL
REFH
A
B
C
5H22
9H22
2H22
U_IN
5031 3u9
3114 91
7039 BC848C
2123 100n
U
TP113
2127 100n
V
TP115
2131 27p
2124 150p
2130 390p
3118 270
3120 270
3007 20
2023 100n
2185 47u
2151 47p
4H22
V_IN
5032 3u9
3125 75
7042 BC848C
7000 BC848C
2186 47U
2018 100N
2136 27p
2128 150p
2134 390p
3127 430
3128 270
2150 47u
2014 100n
6000 LL-4148
3000 1K6
3002 2k4
5000 22u
2006 330u
2007 100n
VCCA
VCCB
VCCC
AGNA
AGNB
AGNC
6H22 COINC
7H22
10H22 CVBS
1H22 FBL
M35
L56
L61
L58
+5P
2083 100n
2084 100n
7120 PCB83C652
31,40
7219 UPD91237C
13,48
2086 27p
1001 12MHz
2087 27p
G 12MHz
RESET
DATA PROC.
M14
3057 4k7
BL4680
V50
COMPR. 4.3
BK50
SCAN PEAKING ON/OFF
FBW
SCL
SDA
UPDA
UPCL
FRAME
RSTR
RSTN2
RSTN1
M53
M6
M19
M13
L57
M41
M23
L55
L54
M33
M31
L66
M12
M11
M30
M29
M28
3059 1k
2)
16MHz CLK0
M16
M39
M12
7022 BC848B
3058 4k7
FBL
M35
3060 12k
2085 100n
DIV.
RST
WE1
FSY
PLL50
BK50
BL50
WE2
RE1-IN
M26
M27
M10
L62
M36
M37
V0 COUNTER CONTATORE
VU COUNTER CONTATORE
INT LOG
GATE
MC1
HI
24,25,34,47
3096 47
2166 47p
3071 0
H100
BLN
RE2-IN
PLL
BK50
L63
M24
M38
M9
L60
M13
DIV.
RESET RIMESSA A ZERO
COUNTER CONTATORE
MC2
HU
TP114
TP104
M49
H100
CONT0
CONT1
CONT2
CONT3
FSY
KLEMM
FBW
M52
M41
M27
WATCHDOG
3079 470
3078 22k
2092 10u
6004 LL-4148
3074 2k7
6013 5V6
7025 BC858
7027 BC848
6014 1N4148
7024 BC858
TP101
2088 22n
3064 100k
3076 220
3065 22k
3066 2k4
3203 1k
3062 10k
3061 6k2
2164 10p
3063 470
7023 BC858C
2163 220n
3067 10k
3083 2k2
3082 2k2
3084 47k
7221 LM833N
2096 2n2
3086 47k
2102 2n2
3087
V100
3004 4k7
7029 BC848B
5033 10u
3228 1k8
2090 47p
CS100
V50
V100
CLK02 32MHz
CLK0 32MHz
FLL
H100/V100
M6
L59
M7
M50
L64
M20
M8
M48
L65

LFR box FLx.24/.26 (Digital Scan)



M40
CLK0 16/12MHz
DSP
7201 TMS4C1050
7202 TMS4C1050
7203 TMS4C1050
7204 TMS4C1050
7205 TMS4C1050
7206 TMS4C1050
DRAM
DIN3
DIN2
DIN1
DIN0
DOUT3
DOUT2
DOUT1
DOUT0
Vss
Vdd
RE
WE
RSTR
RSTN
SRCK
SWCK
16MHz
32MHz
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
UV1
UV2
UV3
UV4
5002 2u2
2005 100n
+5
7208 SAA4940
7209 SAA7158
NORIC
YB0
YB1
YB2
YB3
YB4
YB5
YB6
YB7
UVB1
UVB2
UVB3
UVB4
UVA1
UVA2
UVA3
UVA4
YA0
YA1
YA2
YA3
YA4
YA5
YA6
YA7
YA
YB
UVA
UVB
YC
YD
UVC
UVD
MOVE
TV
ON/OFF (PTV ONLY)
YC0
YC1
YC2
YC3
YC4
YC5
YC6
YC7
YD0
YD1
YD2
YD3
YD4
YD5
YD6
YD7
UVC1
UVC2
UVC3
UVC4
UVD1
UVD2
UVD3
UVD4
Y1
Y2
UV1
UV2
3202 1k
3201 1k
2011 100n
5004 2u2
2015 100n
5005 2u2
2022 100n
5007 2u2
2029 100n
5009 2u2
2034 100n
5011 2u2
5013 2u2
2000 100n
M45 M36 M30 M29 M43 M18
M42 M26 M30 M28 M43 M39
1, 9, 16, 25, 40, 53, 55, 56, 62, 65, 66
2, 23, 31, 32, 42, 46, 63
3, 22, 33, 38, 39, 43, 52, 54, 62
FBWN 45 FBW
M52
CLK02 32MHz
CLO 44
M50
CLO 41
M17
CL 32MHz
CL 40
M22
EN
C0 C1 C2 C3 OENC DTC C4 C5 C6 C7
B0 B1 B2 B3 OENB DTB B4 B5 B6 B7
A0 A1 A2 A3 OENA DTA A4 A5 A6 A7
CONT0 CONT1 CONT2 CONT3 FSY KLEMM
FBW
FSY
M52 M41
M27
3183 470
H100 V100
M48 M49 M7
BLN UPCL UPDA RSTR CLK RE2
M24 M25 M31 M32 M33 M34 M30
M20 M21 M45 M44
+13
2094 100n
33N
7030 BC548
3181 100
IL
L69
2097 1n
3087
3055
+5

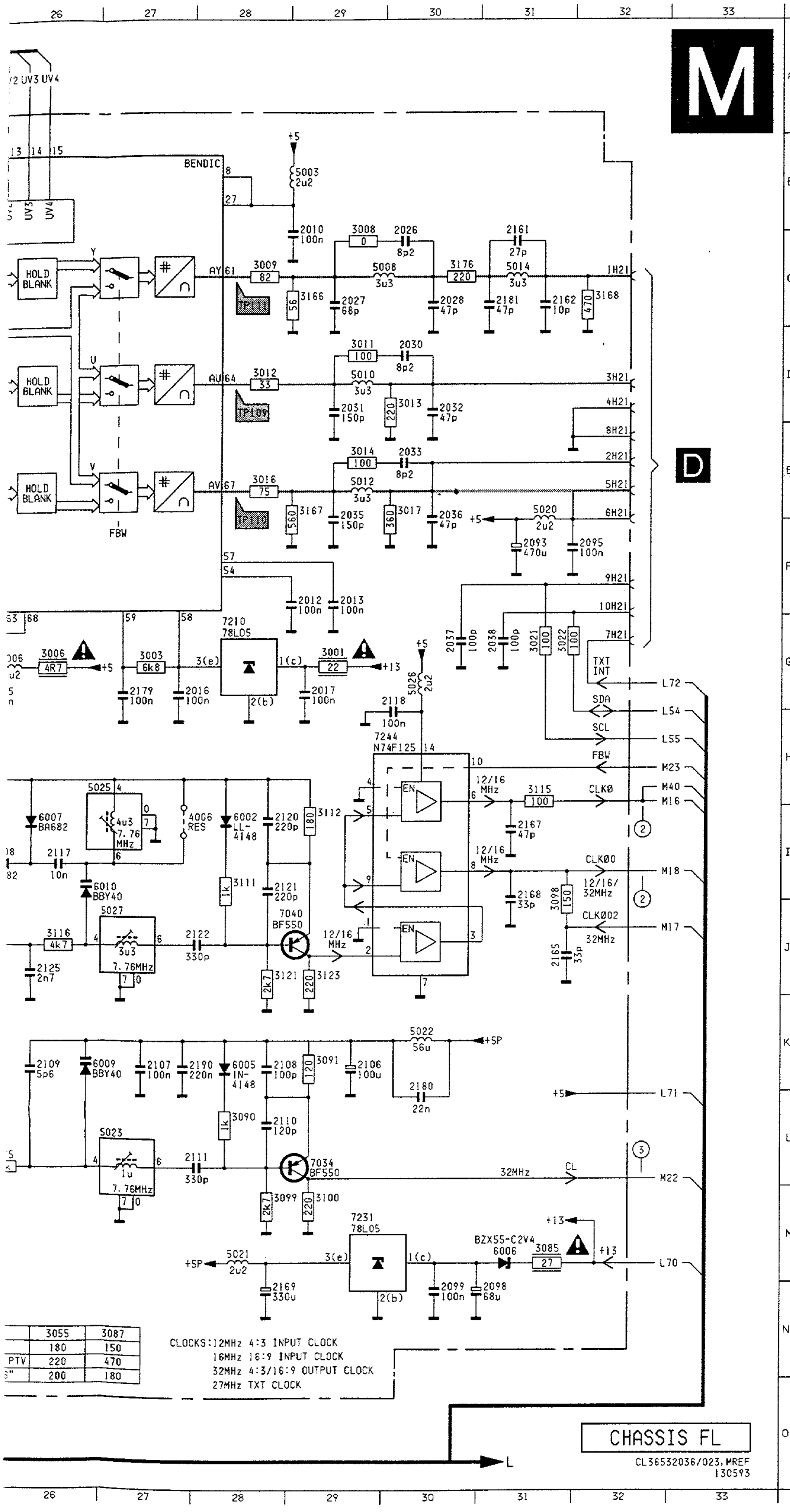
LFR box FLx.24/.26 (Digital Scan)


16
17
18
19
20
21
22
23
24
25
26
27
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7 UV1 UV2 UV3 UV4
5002 2u2
2005 100n
7208 SAA4940
NORIC
7209 SAA7158
BEND
DRAM
DOUT3 DOUT2 DOUT1 DOUT0 Vdd
RSTN SRCK SWCK
YB0 YB1 YB2 YB3
YB4 YB5 YB6 YB7
UVB1 UVB2 UVB3 UVB4
UVA1 UVA2 UVA3 UVA4
YA0 YA1 YA2 YA3
YA4 YA5 YA6 YA7
YB
YA
UVB
UVA
YC
YD
UVC
UVD
MOVE
K
TV
ON/OFF (PTV ONLY)
YC0 YC1 YC2 YC3 YC4 YC5 YC6 YC7
YD0 YD1 YD2 YD3 YD4 YD5 YD6 YD7
UVC1 UVC2 UVC3 UVC4
UVD1 UVD2 UVD3 UVD4
Y1 Y2 UV1 UV2
YUV1 YUV2
YUV1+YUV2
LFR ON/OFF
HOLD BLANK
CTØ
FBW
Y
U
V
CLK RE2 IN RE2 OUT RE1 IN RE2 OUT UPDA UPCL
1, 9, 16, 25, 40, 53, 55, 56, 62, 65, 66
M30 M25 M43 M21 M38 M44 M37 M42 M34 M32
M29 M43 M18
M28 M43 M39
3202 1k
3201 1k
2011 100n
5004 2u2
2015 100n
5005 2u2
2022 100n
5007 2u2
2029 100n
5009 2u2
2034 100n
5011 2u2
+5
5006 2u2
3006 4R7
3003 6k8
2175 100n
2179 100n
2016 100n
2, 23, 31, 32, 42, 46, 63
5013 2u2
2000 100n
FBWN 45 FBW M52
CLK002 32MHz CL0 44 M50
CLK02 32MHz CL0 41 M17
CL 32MHz CL 40 M22
EN
3, 22, 33, 38, 39, 43, 52, 54, 62
3183 470
H100 V100
BLN UPCL UPDA RSTR CLK RE2
M48 M49 M7 M24 M25 M31 M32 M33 M34 M30 M20 M21 M45 M44
3109 10
2119 100n
6007 BA682
5025 4u3 7.76MHz
400 RES
COMPR. 4:3
M19
3105 4k7
3108 4k7
7037 BC848
3103 1k
6008 BA682
2117 10n
6010 BBY40
5027 3u3 7.76MHz
M10 PLL50
TP102
3113 1k5
3119 3k3
3116 4k7
2125 2n7
2126 100n
2122 330
2109 5p6
6009 BBY40
2107 100n
2190 220
M8 FLL
3093 100k
M9 PLL
3092 220k
3094 120k
3095 22k
5023 1u 7.76MHz
2111 330
3097 22k
2114 220n
2112 33n
2113 2n2
+5P

*	3055	3087
4:3	180	150
16:9 & PTV	220	470
16:9 36"	200	180

CLOCKS

LFR box FLx.24/.26 (Digital Scan)


M
D
BENDIC
HOLD BLANK
HOLD BLANK
HOLD BLANK
FBW
AY 61
AU 64
AV 67
UV3 UV4
TP111
TP109
TP110
+5
5003 2u2
2010 100n
3008 0
2026 8p2
2161 27p
3009 82
5008 3u3
3176 220
5014 3u3
1H21
3166 56
2027 68p
2028 47p
2181 47p
2162 10p
3168 470
3011 100
2030 8p2
3012 33
5010 3u3
3H21
4H21
8H21
2031 150p
3013 220
2032 47p
3014 100
2033 8p2
2H21
3016 75
5012 3u3
5H21
3167 560
2035 150p
3017 360
2036 47p
5020 2u2
6H21
2093 470u
2095 100n
9H21
10H21
7H21
2012 100n
2013 100n
2037 100p
2038 100p
3021 100
3022 100
7210 78L05
3006 4R7
3003 6k8
3001 22
+13
2179 100n
2016 100n
2017 100n
TXT INT
L72
SDA
L54
SCL
L55
5026 2u2
2118 100n
7244 N74F125
FBW
M23
12/16 MHz
3115 100
CLK0
M40
M16
5025 4u3 7.76 MHz
4006 RES
6007 BA682
6002 LL-4148
2120 220p
3112 180
2117 10n
6010 BBY40
3111 1k
2121 220p
2167 47p
12/16 MHz
CLK00
M18
12/16/ 32MHz
2168 33p
3098 150
CLK002 32MHz
M17
5027 3u3 7.76MHz
3116 4k7
2122 330p
7040 BF550
12/16 MHz
2165 33p
2125 2n7
3121 2k7
3123 220
5022 56u
+5P
2109 5p6
6009 BBY40
2107 100n
2190 220n
6005 IN-4148
2108 100p
3091 120
2106 100u
2180 22n
+5
L71
3090 1k
2110 120p
5023 1u 7.76MHz
2111 330p
7034 BF550
32MHz
CL
M22
3099 2k7
3100 220
7231 78L05
+13
BZX55-C2V4
6006
3085 27
+13
L70
+5P
5021 2u2
2169 330u
2099 100n
2098 68u
L
26 27 28 29 30 31 32 33
A B C D E F G H I J K L M N O

	3055	3087
	180	150
PTV	220	470
"	200	180

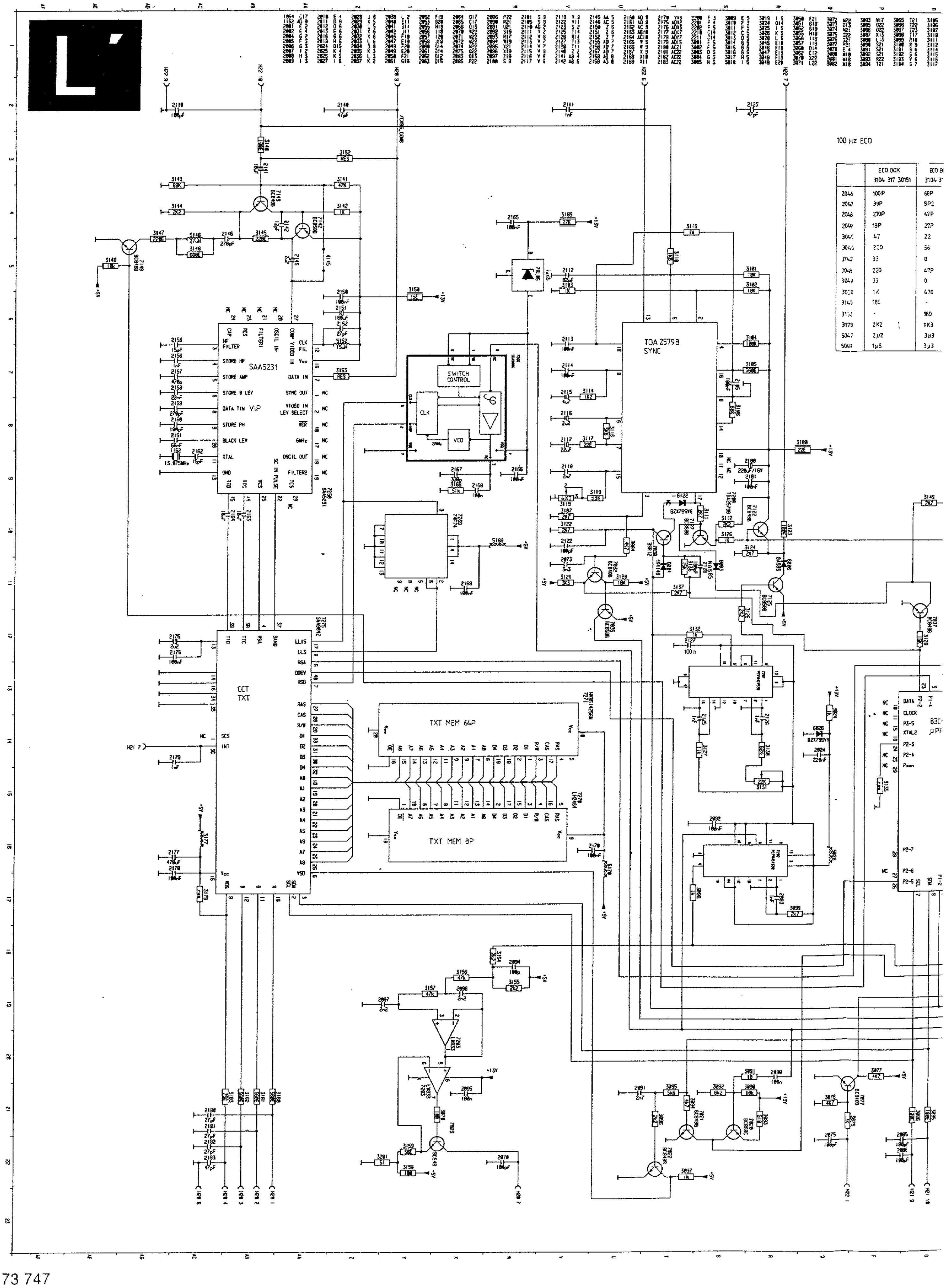
CLOCKS: 12MHz 4:3 INPUT CLOCK
16MHz 16:9 INPUT CLOCK
32MHz 4:3/16:9 OUTPUT CLOCK
27MHz TXT CLOCK

CHASSIS FL

CL36532036/023.MREF
130593

1001	H 2
2000	H22
2001	B 9
2002	B 9
2003	B 9
2004	B10
2005	B16
2006	G 9
2007	G10
2010	C29
2011	E16
2012	F29
2013	F29
2014	F 8
2015	G16
2016	G27
2017	G29
2018	F10
2022	H16
2023	E 9
2026	C30
2027	C29
2028	C30
2029	J16
2030	D30
2031	D29
2032	D30
2033	E30
2034	L16
2035	F29
2036	F30
2037	G30
2038	G31
2083	H 4
2084	H 8
2085	I10
2086	H 2
2087	I 2
2088	N 2
2090	N 9
2091	C 3
2092	M 2
2093	F31
2094	M13
2095	F32
2096	M10
2097	N14
2098	N31
2099	N30
2102	N10
2103	B 7
2105	B 6
2106	K29
2107	K27
2108	K28
2109	K26
2110	L28
2111	L28
2112	M25
2113	M25
2114	M24
2115	D 8
2116	D 3
2117	I26
2118	G30
2119	I25
2120	I28
2121	I28
2122	J28
2123	D 8
2124	E 3
2125	J26
2126	K25
2127	E 8
2128	G 3
2130	E 4
2131	E 4
2132	D 4
2133	D 4
2134	G 4
2136	F 4
2150	F 7
2151	E10
2152	B 6
2161	C31
2162	C31
2163	M 7
2164	M 7
2165	J31
2166	L 6
2167	I31
2169	N28
2170	C 5
2175	G25
2179	G27
2180	K30
2181	C31
2185	E 9
2186	F 9
2187	B 8
2190	K27
3000	F 9
3001	G29
3002	G 8
3003	G27
3004	N 7
3006	G26
3007	E 9
3008	C29
3009	C28
3011	D29
3012	D28
3013	D30
3014	E29
3016	E28
3017	E30
3021	G31
3022	G31
3055	N13
3057	I 2
3058	I 9
3059	L 2
3060	I 9
3061	M 6
3062	M 8
3063	M 8
3064	N 2
3065	N 4
3066	N 4
3067	M 7
3068	B 4
3071	K 9
3074	M 4
3075	C 4
3076	N 3
3078	M 3
3079	M 2
3082	M 9
3083	M 9
3084	M 9
3085	M31
3086	N10
3087	N12
3089	B 7
3090	L28
3091	K29
3092	L24
3093	L25
3094	L25
3095	L25
3096	K 6
3097	M24
3098	I31
3099	M28
3100	M29
3101	B 5
3102	C 6
3103	I25
3104	C 5
3105	I24
3106	D 4
3107	D 5
3108	J24
3109	H25
3110	D 7
3111	I28
3112	I29
3113	J25
3114	E 4
3115	H31
3116	J26
3118	E 5
3119	J25
3120	E 5
3121	J28
3123	J29
3125	F 4
3127	G 5
3128	G 5
3163	D 3
3166	C29
3167	E29
3168	C32
3176	C30
3181	M13
3183	L17
3201	C17
3202	C16
3203	N 4
3228	N 8
4006	I27
5000	G 9
5001	B 8
5002	B16
5003	B29
5004	E17
5005	G17
5006	G26
5007	H17
5008	C29
5009	J17
5010	D29
5011	L17
5012	E29
5013	G22
5014	C31
5020	E31
5021	M28
5022	K30
5023	L27
5025	H26
5026	G30
5027	J27
5030	C 4
5031	E 4
5032	F 4
5033	N 8
6000	F 8
6002	I28
6004	M 4
6006	M31
6007	I26
6008	I25
6009	K26
6010	I26
6013	M 4
6014	N 4
7000	F 9
7022	I 9
7023	M 8
7024	N 3
7025	N 3
7026	B 4
7027	M 4
7029	N 8
7030	M13
7034	L29
7035	B 5
7036	C 5
7037	I24
7038	C 6
7039	E 5
7040	J29
7042	F 5
7120	H 3
7201	B14
7202	D14
7203	E14
7204	G14
7205	I14
7206	K14
7207	B11
7208	B17
7209	B22
7210	G28
7219	H 6
7221	M11
7231	M29
7244	H29

100 Hz / TXT (FLx.27)


L'
SAA5231
VIP
TDA 2579B
SYNC
SWITCH CONTROL
CLK
VCO
CCT
TXT
TXT MEM 64P
TXT MEM 8P
BZX79SV6
+5V
+13V

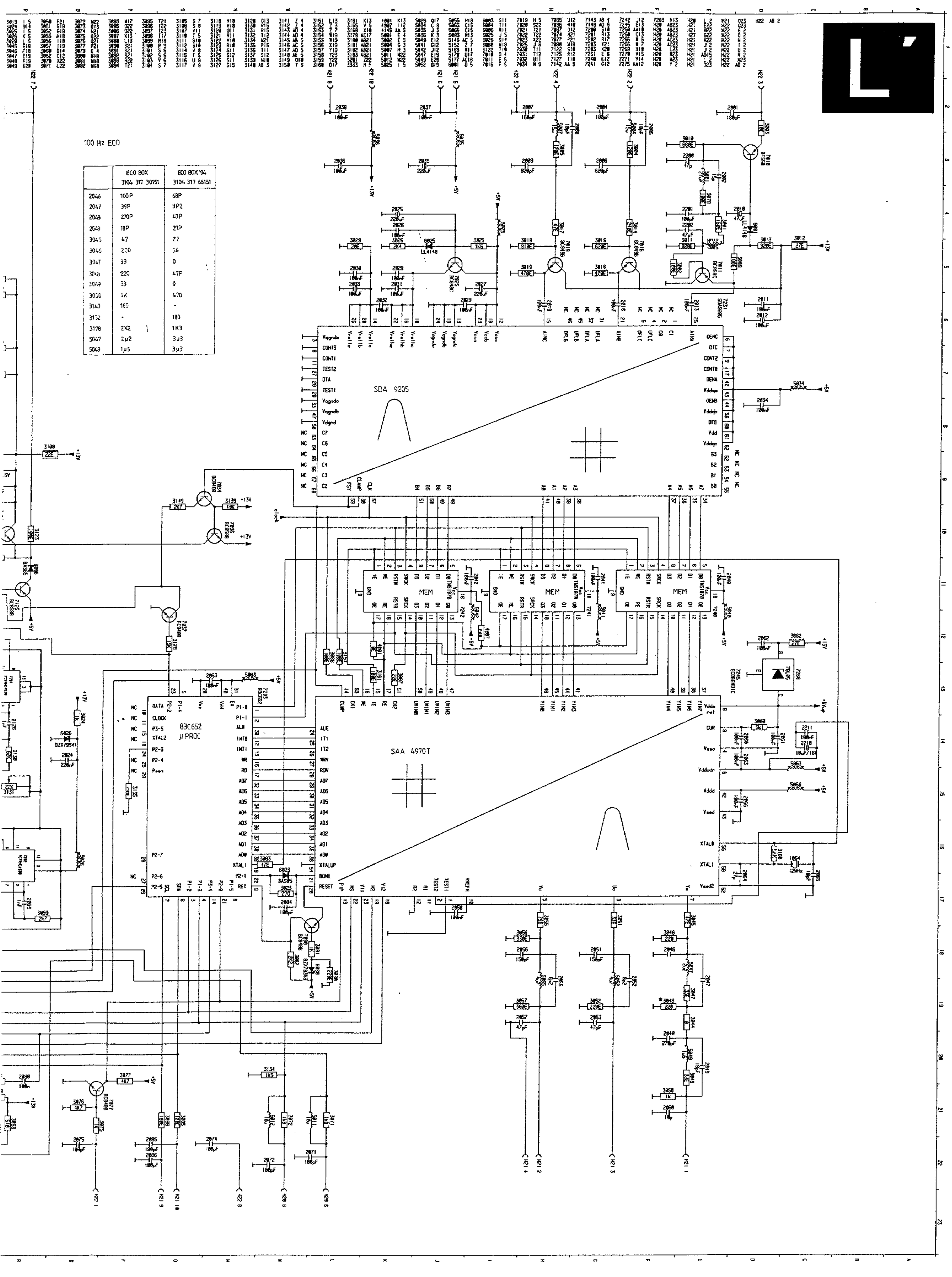
100 Hz ECO

	ECO BOX 3104 317 30151	ECO B 3104 3
2046	100P	68P
2047	39P	8P2
2048	270P	47P
2049	18P	27P
3045	47	22
3046	200	56
3047	33	0
3048	220	47P
3049	33	0
3050	1K	470
3140	180	-
3132	-	180
3173	2K2	1K3
5047	2µ2	3µ3
5049	1µ5	3µ3

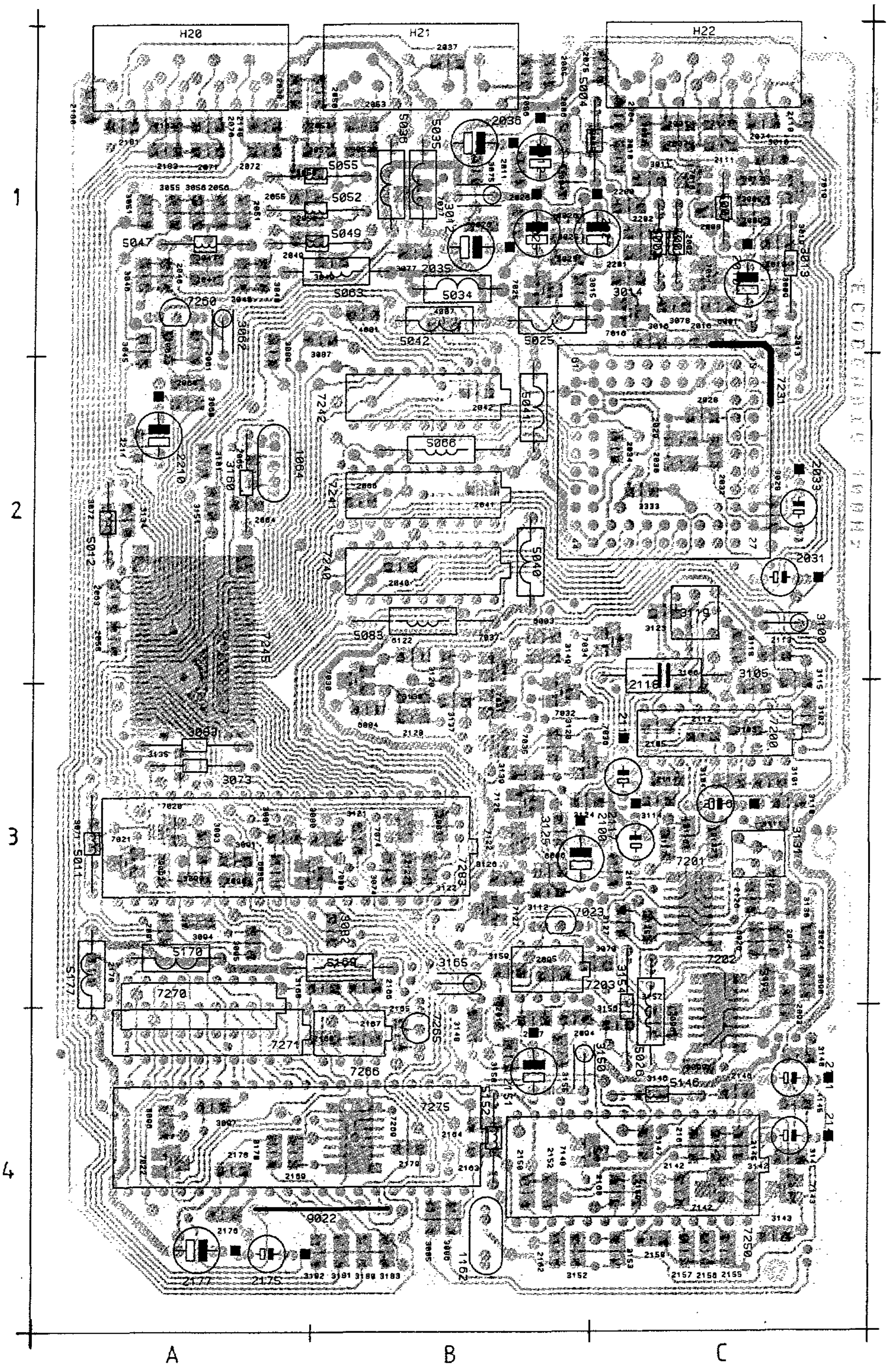
3019	I 5	3050	F21	3072	W22	3083	W17	3095	T21	3105	S 7	3118	V10	3128	O13	3141	Z 4	3151	L13	3161	K13	4001	K13	5026	Q17	5055	H19	6003	S11	7019	H 5	7035	U12	7143	AB 4	7242	J12	7283	N13	H20	L 2	H21	O23	H22	AB 2
3024	O14	3051	G18	3073	O13	3085	Q22	3096	T22	3106	S 8	3119	V10	3130	R15	3142	Z 4	3152	Z 3	3165	V 5	4007	I12	5034	C 8	5063	C15	6004	T11	7020	S22	7036	W10	7148	AD 6	7245	E13	H20	AB23	H21	E22	H22	O23		
3025	I 5	3052	G19	3074	W21	3086	Q22	3097	T23	3107	V11	3120	U11	3131	R15	3143	AD 4	3153	Z 7	3168	X10	4145	AA 5	5035	J 3	5066	C15	6006	R11	7021	T21	7037	O12	7200	S10	7250	AA10	H20	AB23	H21	H22	H22	S 2		
3026	K 5	3055	H18	3075	Q22	3087	K13	3098	T17	3110	T 5	3121	V11	3132	T12	3144	AD 4	3154	W19	3178	AC17	5001	E 4	5036	K 3	5083	N13	6025	J 5	7022	T22	7074	N21	7201	R13	7260	C13	H20	AB23	H21	G22	H22	O 2		
3028	L 5	3056	I18	3076	Q21	3088	L13	3099	R18	3111	S10	3122	Y10	3134	W21	3145	AB 5	3155	W19	3180	AB21	5002	E 5	5040	E12	5146	AC 5	6026	O14	7023	X22	7077	P21	7202	R17	7265	W 6	H20	AC23	H21	H22	H22	H 2		
3045	E18	3057	I19	3077	P21	3090	S21	3100	R 9	3112	S10	3123	R10	3135	P15	3146	AC 5	3156	X19	3181	AB21	5004	G 3	5041	G12	5152	Z 7	6080	W18	7025	J 6	7080	W18	7203	Y21	7266	W 7	H20	AC23	H21	J 2	H22	I 2		
3046	F18	3060	D14	3078	E 4	3091	S21	3101	S 6	3114	V 8	3124	S11	3136	T11	3147	AD 5	3157	Y19	3182	AB21	5007	H 3	5042	J12	5163	W11	6122	T10	7030	T11	7122	S10	7203	X20	7269	X10	H20	L23	H21	J 2	H22	U 2		
3047	E19	3062	C12	3080	W18	3092	S21	3102	S 6	3115	T 5	3125	S12	3137	S12	3148	AE 5	3158	Y23	3183	AB21	5011	W22	5047	E19	5170	U17	7010	D 4	7031	T12	7125	R12	7231	E 6	7270	Y15	H20	M23	H21	AD15	H22	R 2		
3048	F18	3070	X22	3081	W18	3093	R22	3103	Y 6	3116	U 9	3126	S11	3139	N10	3149	O10	3159	Y22	3201	Z22	5012	W22	5049	E20	5177	AC16	7011	E 5	7032	U11	7127	T10	7240	E12	7271	Y14	H20	M23	H21	L 2	H22	N23		
3049	E20	3071	L22	3082	W18	3094	T21	3104	S 7	3117	V 9	3127	S15	3140	AB 3	3150	Y 6	3160	O17	3333	N 5	5025	I 5	5052	G19	6001	D 5	7016	F 5	7034	N 9	7142	AA 5	7241	G12	7275	AA12	H20	Y 2	H21	O23	H22	AD 2		

100 Hz ECO

	ECO BOX 3104 317 30151	ECO BOX '94 3104 317 66151
2046	100P	68P
2047	39P	8P2
2048	270P	47P
2049	18P	27P
3045	47	22
3046	220	56
3047	33	0
3048	220	47P
3049	33	0
3050	1K	470
3140	180	-
3152	-	180
3178	2K2	1K3
5047	2µ2	3µ3
5049	1µ5	3µ3

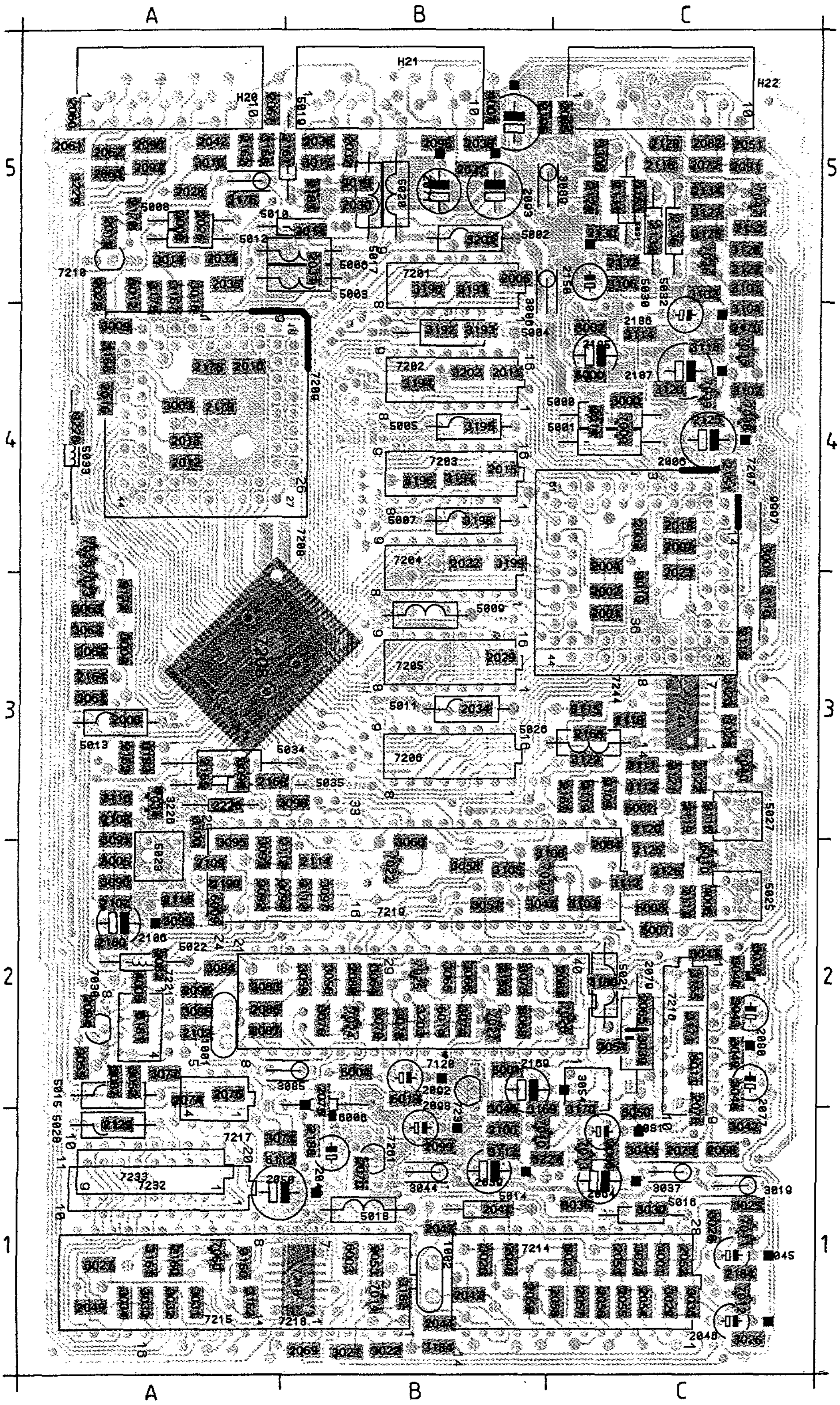


100 Hz / TXT



H20	A1
H21	B1
H22	C1
1064	A2
1162	B4
2001	C1
2002	C1
2004	C1
2005	C1
2006	B1
2007	C1
2008	C1
2009	C1
2010	C1
2011	B1
2012	B1
2013	C1
2016	C1
2019	C1
2024	C3
2025	B1
2026	B1
2027	C1
2028	C2
2029	C2
2030	C2
2031	C2
2032	C2
2033	C2
2034	C2
2035	B1
2036	B1
2037	B1
2038	A1
2040	B2
2041	B2
2042	B2
2046	A1
2047	A1
2048	A1
2049	A1
2050	B1
2051	A1
2052	A1
2053	B1
2055	A1
2056	A1
2057	B1
2058	A2
2060	A2
2061	A1
2062	A1
2063	A2
2064	A2
2065	A2
2066	B2
2070	A1
2071	A1
2072	A1
2074	C1
2075	C1
2083	B3
2085	B1
2086	B1
2090	A3
2091	A3
2092	C3
2093	C3
2094	B4
2095	B3
2096	C4
2097	B4
2100	B3
2101	C3
2105	C3
2110	C1
2111	C1
2112	C3
2113	C2
2114	C3
2115	C3
2116	C3
2117	C3
2118	C2
2122	B3
2123	C1
2125	C3
2126	C3
2127	C3
2128	B3
2140	A1
2141	C4
2142	C4
2145	C4
2146	C4
2150	B4
2151	B4
2152	B4
2155	C4
2156	C4
2157	C4
2158	C4
2159	C4
2160	C4
2161	C4
2162	B4
2163	B4
2164	B4
2165	B4
2166	B3
2167	B4
2168	B4
2169	A4
2170	A3
2175	A4
2176	A4
2177	A4
2178	A4
2179	B4
2181	A1
2182	A1
2183	A1
2200	C1
2201	C1
2202	C1
2210	A2
2211	A2
3003	C1
3004	B1
3005	C1
3009	C1
3010	C1
3011	C1
3012	B1
3013	C1
3014	C1
3015	B1
3016	C1
3017	C1
3018	C1
3019	C1
3024	C3
3025	B1
3026	B1
3028	C2
3045	A1
3046	A1
3047	A1
3048	A1
3049	B1
3050	A1
3051	A1
3052	B1
3055	A1
3056	A1
3057	B1
3060	A2
3062	A1
3070	C3
3071	A3
3072	A2
3073	A3
3074	B3
3075	B1
3076	B1
3077	B1
3078	C1
3080	B3
3081	A3
3082	B3
3083	A3
3085	B4
3086	B4
3087	B1
3088	A1
3090	A3
3091	A3
3092	A3
3093	A3
3094	A3
3095	A3
3096	A4
3097	A4
3098	C3
3099	C4
3100	C2
3101	C3
3102	C3
3103	C3
3104	C3
3105	C3
3106	C3
3110	C3
3111	C3
3112	B3
3114	C3
3115	C3
3116	C3
3117	C3
3118	C2
3119	C2
3120	B3
3121	B3
3122	B3
3123	C2
3124	B3
3125	B3
3126	B3
3127	C3
3128	B2
3130	C3
3131	C3
3132	C3
3134	A2
3135	A3
3136	B3
3137	B3
3139	B3
3140	C4
3141	C4
3142	C4
3143	C4
3144	C4
3145	C4
3146	C4
3147	C4
3148	B4
3149	B2
3150	B4
3151	A2
3152	B4
3153	C4
3154	C4
3155	B4
3156	C4
3157	C4
3158	B4
3159	B3
3160	A2
3161	A2
3165	B3
3168	B3
3178	A4
3180	B4
3181	B4
3182	B4
3183	B4
3201	B4
3333	C2
4001	B1
4007	B1
4145	C4
5001	C1
5002	C1
5004	C1
5007	C1
5011	A3
5012	A2
5025	B1
5026	C4
5034	B1
5035	B1
5036	B1
5040	B2
5041	B2
5042	B1
5047	A1
5049	B1
5052	B1
5055	B1
5063	B1
5066	B2
5083	B2
5146	C4
5152	B4
5169	B3
5170	A3
5177	A3
6001	C1
6003	B2
6004	B3
6006	B3
6025	B1
6026	C3
6080	A3
6122	B2
7010	C1
7011	C1
7016	C1
7019	C1
7020	A3
7021	A3
7022	A4
7023	B3
7025	B1
7030	B2
7031	B3
7032	B3
7034	C2
7035	B3
7036	B3
7037	B2
7074	B3
7077	B1
7080	B3
7122	B3
7125	B3
7127	B3
7142	C4
7143	C4
7148	C4
7200	C3
7201	C3
7202	C4
7203	B3
7231	C2
7240	B2
7241	B2
7242	B2
7245	A2
7250	C4
7260	A1
7265	B4
7266	B4
7269	B4
7270	A3
7271	A4
7275	A4
7283	A3
9022	B4

LFR box



H20	A5	2013	A4	2034	B3	2050	A1	2067	A5	2083	C2	2100	B1	2118	C3	2134	C5
H21	B5	2014	C4	2035	A5	2051	C5	2068	C1	2084	C2	2102	A2	2119	C3	2136	C5
H22	C5	2015	B4	2036	B5	2052	C1	2069	B1	2085	C5	2103	B5	2120	C3	2150	C5
1001	A2	2016	A4	2037	B5	2053	C1	2070	B1	2086	A2	2105	B5	2121	C3	2151	C4
1002	B1	2017	A5	2038	B5	2054	C1	2071	B5	2087	A2	2106	A2	2122	C3	2152	C5
2000	A3	2018	C4	2039	B1	2055	C1	2072	C5	2088	B2	2107	A2	2123	C4	2153	B2
2001	C3	2022	B4	2040	B1	2056	C1	2073	C1	2090	A5	2108	A3	2124	C5	2160	A1
2002	C3	2023	C4	2041	B1	2057	C1	2074	A2	2091	C5	2109	A2	2125	C2	2161	A5
2003	C4	2026	A5	2042	A5	2058	C1	2075	B2	2092	B2	2110	A3	2126	C2	2162	A5
2004	C4	2027	A5	2043	B1	2059	B1	2076	A2	2093	B5	2111	A2	2127	C5	2163	A3
2005	B5	2028	A5	2044	B1	2060	A5	2077	C2	2094	A2	2112	B2	2128	C5	2164	A3
2006	C4	2029	B3	2045	C1	2062	A5	2078	C1	2095	B5	2113	A2	2129	A1	2165	A3
2007	C4	2030	B5	2046	C1	2063	A5	2079	C2	2096	A2	2114	B2	2130	C5	2166	A3
2010	A4	2031	B5	2047	B1	2064	C1	2080	C2	2097	A5	2115	C3	2131	C5	2167	C3
2011	B4	2032	B5	2048	B1	2065	C2	2081	C1	2098	B1	2116	C5	2132	C5	2168	C3
2012	A4	2033	A5	2049	A1	2066	C1	2082	C5	2099	B1	2117	C2	2133	C5	2169	B2

2170	C4	3092	A2	5018	B1
2172	A5	3093	A2	5019	B5
2175	A4	3094	A2	5020	B5
2179	A4	3095	A2	5021	C2
2180	A2	3096	B3	5022	A2
2181	B5	3097	B2	5023	A2
2184	C1	3098	A3	5025	C2
2185	C4	3099	A2	5026	C3
2186	C4	3100	A3	5027	C3
2187	C4	3101	C5	5028	A1
2188	B1	3102	C4	5030	C5
2190	A2	3103	C2	5031	C5
2226	A3	3104	C4	5032	C5
3000	C4	3105	B2	5033	A4
3001	A5	3106	C5	5034	A3
3002	C4	3107	C5	5035	A3
3003	A4	3108	B2	6000	C4
3004	A3	3109	C3	6001	B2
3006	B5	3110	C3	6002	C3
3007	C4	3111	C3	6003	B1
3008	A5	3112	C3	6004	B2
3009	A4	3113	C2	6005	A2
3010	A5	3114	C4	6006	B2
3011	B5	3115	C3	6007	C2
3012	A5	3116	C3	6008	C2
3013	B5	3117	B1	6009	A2
3014	A5	3118	C4	6010	C2
3016	A5	3119	C3	6011	C2
3017	B5	3120	C4	6013	B2
3019	C1	3121	C3	6014	B2
3020	B1	3122	C3	6112	A1
3021	B1	3123	C3	7000	C4
3022	B1	3125	C5	7010	B1
3023	C1	3127	C5	7011	C1
3024	C1	3128	C5	7012	C1
3025	C1	3155	C2	7013	C1
3026	C1	3160	A1	7014	B1
3027	A1	3161	A1	7022	B2
3028	C1	3162	A1	7023	A3
3029	C1	3163	C5	7024	B2
3030	C1	3166	A4	7025	B2
3031	A1	3167	A5	7026	C2
3032	A1	3168	A5	7027	B2
3033	A1	3169	B1	7029	A4
3034	A1	3170	C1	7030	A2
3035	C1	3171	C2	7034	A3
3036	C1	3172	A3	7035	C4
3037	C1	3175	A5	7036	C5
3038	C2	3176	A5	7037	B2
3039	C2	3180	C2	7038	C4
3040	C2	3181	A2	7039	C4
3041	C2	3182	B1	7040	C3
3042	C1	3183	A3	7042	C5
3043	C2	3184	B1	7060	A1
3044	B1	3190	B5	7120	B2
3045	C1	3191	B5	7201	B5
3046	B1	3192	B4	7202	B4
3047	B2	3193	B4	7203	B4
3048	C2	3194	B4	7204	B4
3049	C2	3195	B4	7205	B3
3050	C1	3196	B4	7206	B3
3051	C2	3197	B4	7207	C4
3052	A2	3198	B4	7208	A3
3053	B1	3199	B4	7209	A4
3054	C2	3201	B5	7210	A5
3055	A2	3202	B4	7214	C1
3056	B2	3203	B2	7215	A1
3057	B2	3226	A3	7216	C2
3058	B2	3227	B1	7217	A2
3059	B2	3228	A4	7218	B1
3060	B2	3229	A5	7219	B2
3061	A3	3300	C5	7221	A2
3062	A3	4001	C1	7231	B2
3063	A3	4005	A2	7232	A1
3064	B2	4006	C2	7233	A1
3065	B2	4007	B5	7244	C3
3066	B2	4010	C3	7261	B1
3067	A3	5000	C4	9997	C4
3068	B2	5001	C4		
3071	A1	5002	B5		
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3076	B2	5005	B4		
3077	A2	5006	B5		
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3085	B2	5012	A5		
3086	A2	5013	A3		
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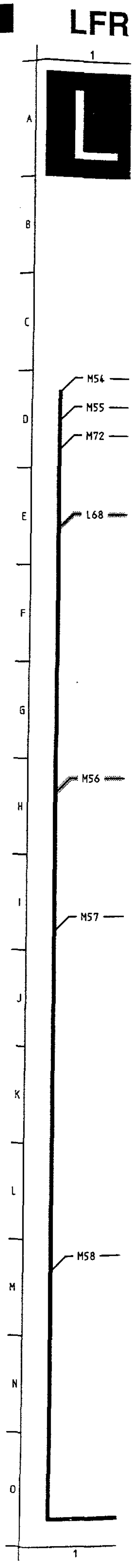
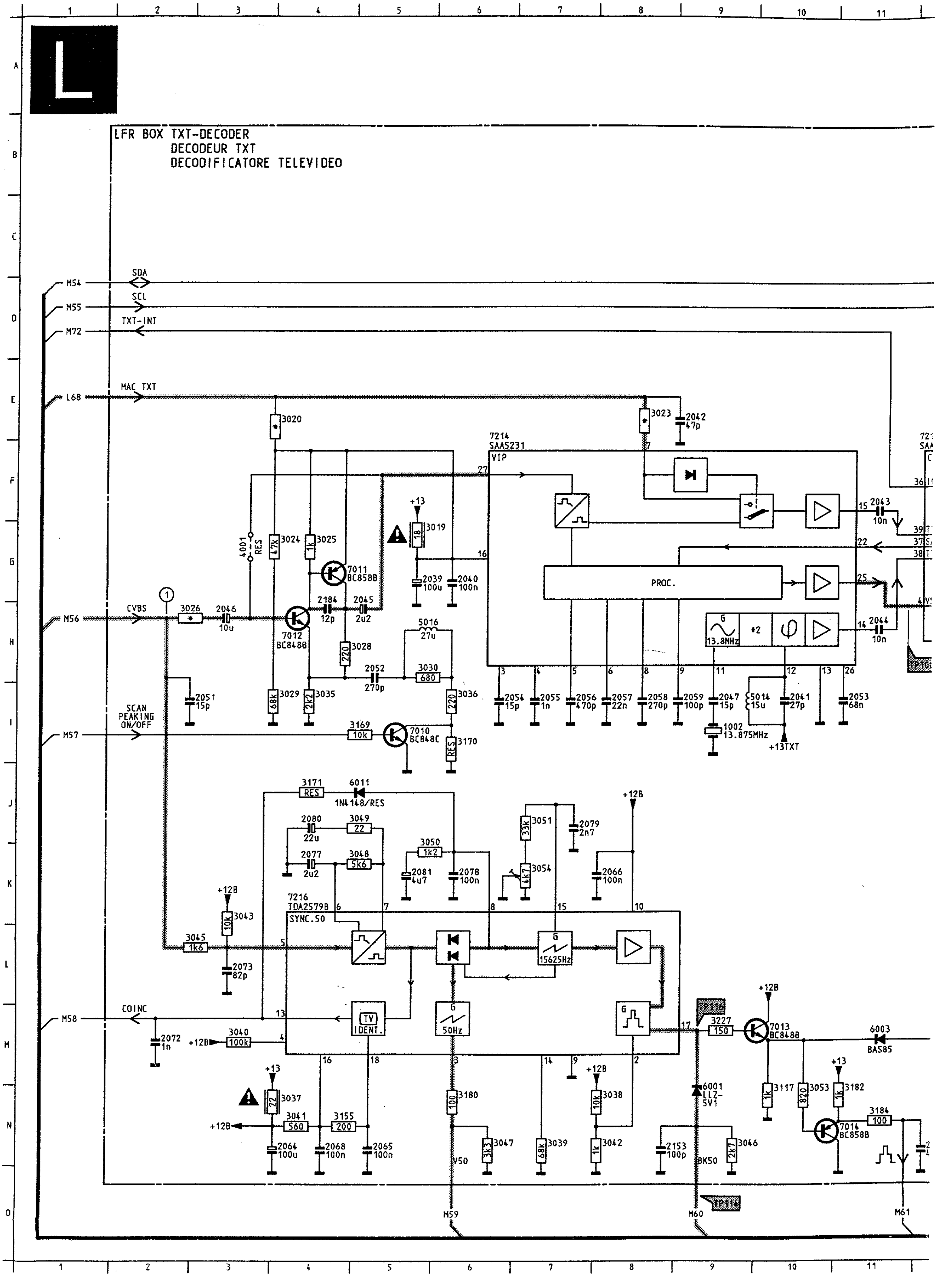


LFR box (Digital Scan)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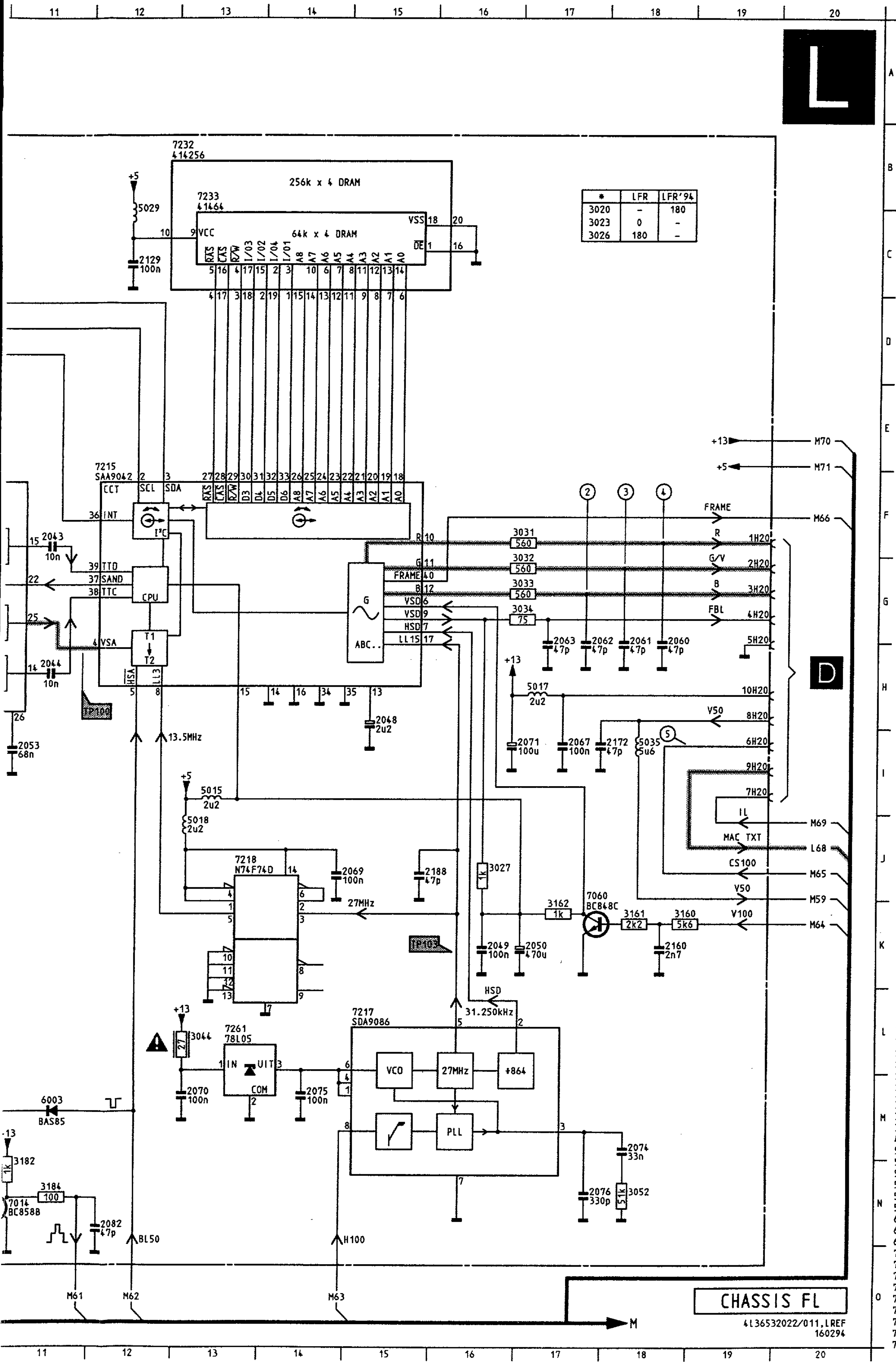
LFR BOX TXT-DECODER
DECODEUR TXT
DECODIFICATORE TELEVIDEO
M54
SDA
M55
SCL
M72
TXT-INT
L68
MAC TXT
M56
CVBS
M57
SCAN PEAKING ON/OFF
M58
COINC
3020
3023
2042 47p
7214 SAA5231
VIP
PROC.
13.8MHz
÷2
3024 47k
3025 1k
4001 RES
7011 BC858B
7012 BC848B
3026
2046 10u
2184 12p
2045 2u2
3019 18
+13
2039 100u
2040 100n
5016 27u
3028 220
2052 270p
3030 680
3036 220
2051 15p
3029 68k
3035 2k2
3169 10k
7010 BC848C
3170 RES
2043 10n
2044 10n
2054 15p
2055 1n
2056 470p
2057 22n
2058 270p
2059 100p
2047 15p
5014 15u
2041 27p
2053 68n
1002 13.875MHz
+13TXT
3171 RES
6011 1N4148/RES
2080 22u
3049 22
2077 2u7
3048 5k6
3050 1k2
2081 4u7
2078 100n
3051 33k
3054 4k7
2079 2n7
+12B
2066 100n
3043 10k
3045 1k6
2073 82p
7216 TDA2579B
SYNC.50
15625Hz
TV IDENT.
50Hz
2072 1n
3040 100k
3037 22
3041 560
3155 200
2064 100u
2068 100n
2065 100n
3180 100
3047 3k3
3039 68k
3038 10k
3042 1k
2153 100p
6001 LLZ-5V1
3046 2k7
BK50
V50
TP116
TP114
3227 150
7013 BC848B
6003 BAS85
3117 1k
3053 820
3182 1k
3184 100
7014 BC858B
M59
M60
M61
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O

LFR box (Digital Scan)


11
12
13
14
15
16
17
18
19
20
L
7232
414256
256k x 4 DRAM
7233
41464
64k x 4 DRAM
VCC
VSS
OE
RAS
CAS
R/W
I/03
I/02
I/04
I/01
+5
5029
2129
100n
7215
SAA9042
CCT
SCL
SDA
INT
I²C
TTD
SAND
TTC
CPU
VSA
T1
T2
HSA
LL3
2043
10n
2044
10n
2053
68n
TP100
G
ABC..
FRAME
VSD
HSD
LL15
3031
560
3032
560
3033
560
3034
75
R
G/V
B
FBL
1H20
2H20
3H20
4H20
5H20
10H20
8H20
6H20
9H20
7H20
D
+13
+5
M70
M71
M66
M69
L68
M65
M59
M64
IL
MAC TXT
CS100
V50
V100
2063
47p
2062
47p
2061
47p
2060
47p
5017
2u2
2071
100u
2067
100n
2172
47p
5035
5u6
2048
2u2
13.5MHz
5015
2u2
5018
2u2
7218
N74F74D
2069
100n
2188
47p
3027
1k
27MHz
TP103
3162
1k
7060
BC848C
3161
2k2
3160
5k6
2160
2n7
2049
100n
2050
470u
HSD
31.250kHz
7217
SDA9086
VCO
27MHz
÷864
PLL
+13
3044
27
7261
78L05
IN
UIT
COM
2070
100n
2075
100n
2074
33n
2076
330p
3052
5.1k
6003
BAS85
-13
3182
1k
3184
100
7014
BC858B
2082
47p
BL50
H100
M61
M62
M63
M
CHASSIS FL
4L36532022/011.LREF
160294

*	LFR	LFR'94
3020	-	180
3023	0	-
3026	180	-

1002	I 9	7217	L15
2039	G 5	7218	J13
2040	G 6	7232	B12
2041	I10	7233	B13
2042	E 9	7261	L13
2043	F11		
2044	H11		
2045	H 5		
2046	H 3		
2047	I 9		
2048	H15		
2049	K16		
2050	K17		
2051	I 3		
2052	H 5		
2053	I11		
2054	I 6		
2055	I 7		
2056	I 7		
2057	I 8		
2058	I 8		
2059	I 9		
2060	H18		
2061	H18		
2062	H17		
2063	H17		
2064	N 4		
2065	N 5		
2066	K 8		
2067	I17		
2068	N 4		
2069	J14		
2070	M13		
2071	I16		
2072	M 2		
2073	L 3		
2074	M18		
2075	M14		
2076	N17		
2077	K 4		
2078	K 6		
2079	J 7		
2080	J 4		
2081	K 5		
2082	N12		
2129	C12		
2153	N 8		
2160	K18		
2172	I18		
2184	H 4		
2188	J15		
3019	G 5		
3020	E 4		
3023	E 8		
3024	G 4		
3025	G 4		
3026	H 2		
3027	J16		
3028	H 4		
3029	I 4		
3030	H 5		
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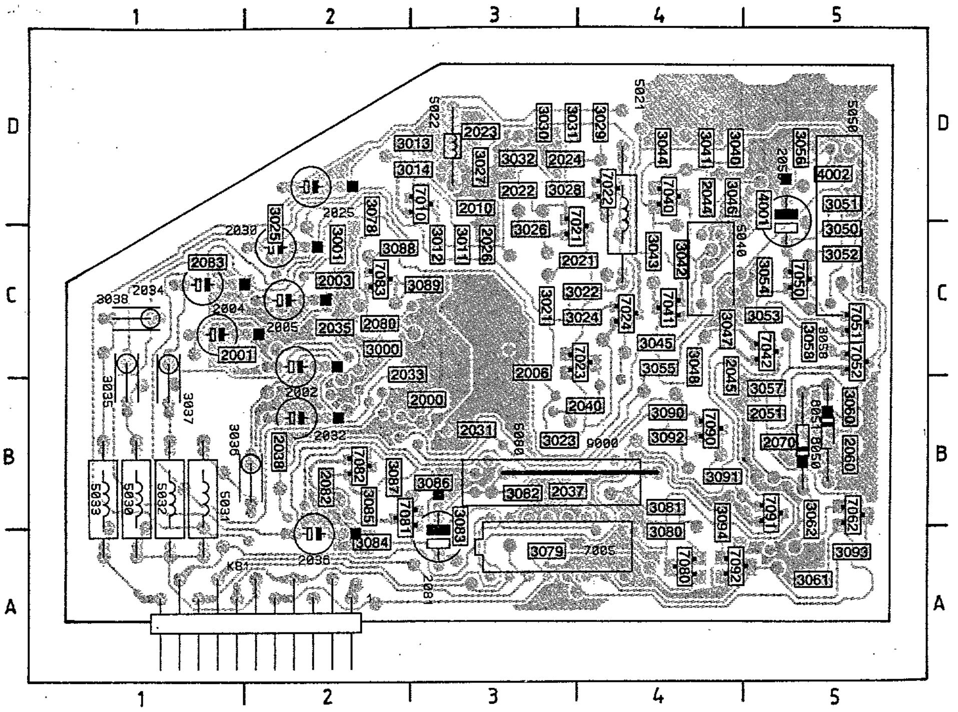
3046	N 9		
3047	N 6		
3048	K 5		
3049	J 5		
3050	K 5		
3051	J 7		
3052	N18		
3053	M10		
3054	K 7		
3117	M10		
3155	N 4		
3160	K18		
3161	K18		
3162	K17		
3169	I 5		
3170	I 6		
3171	J 4		
3180	N 6		
3182	M11		
3184	N11		
3227	M 9		
4001	G 3		
5014	I 9		
5015	I13		
5016	H 5		
5017	H17		
5018	J13		
5035	I18		
6001	N 9		
6003	M11		
6011	J 5		
7010	I 5		
7011	G 4		
7012	H 4		
7013	M10		
7014	N11		
7060	J17		
7214	F 6		
7215	F12		
7216	K 4		


1
2
3
4
5
A
B
C
D
KB1
5033
5030
5032
5031
7000
9000
7005

2000	B3
2001	C1
2002	C2
2003	C2
2004	C1
2005	C2
2006	C3
2010	D3
2021	C4
2022	D3
2023	D3
2024	D3
2025	D2
2026	C3
2030	C2
2031	B3
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2033	C3
2034	C1
2035	C2
2036	A2
2037	B3
2038	B2
2040	B4
2044	D4
2045	C4
2050	D5
2051	B5
2060	B5
2070	B5
2080	C2
2081	A3
2082	B2
2083	C1
3000	C2
3001	C2
3011	C3
3012	C3
3013	D3
3014	D3
3021	C3
3022	C4
3023	B3
3024	C4
3025	D2
3026	C3
3027	D3
3028	D3
3029	D4
3030	D3
3031	D4
3032	D3
3035	B1
3036	B2
3037	B1
3038	C1
3040	D4
3041	D4
3042	C4
3043	C4
3044	D4
3045	C4
3046	D4
3047	C4
3048	C4
3050	C5
3051	D5
3052	C5
3053	C5
3054	C5
3055	C4
3056	D5
3057	B5
3058	C5
3060	B5
3061	A5
3062	B5
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3079	A3
3080	A4
3081	B4
3082	B3
3083	B3
3084	A2
3085	B2
3086	B3
3087	B2
3088	C2
3089	C3
3090	B4
3091	B4
3092	B4
3093	A5
3094	B4
4001	D5
4002	D5
5021	D4
5022	D3
5030	B1
5031	B1
5032	B1
5033	B1
5040	C4
5050	C5
5080	B3
6050	B5
6051	B5
7000	C3
7005	A3
7010	D3
7021	C4
7022	D4
7023	C4
7024	C4
7040	D4
7041	C4
7042	C5
7050	C5
7051	C5
7052	C5
7062	B5
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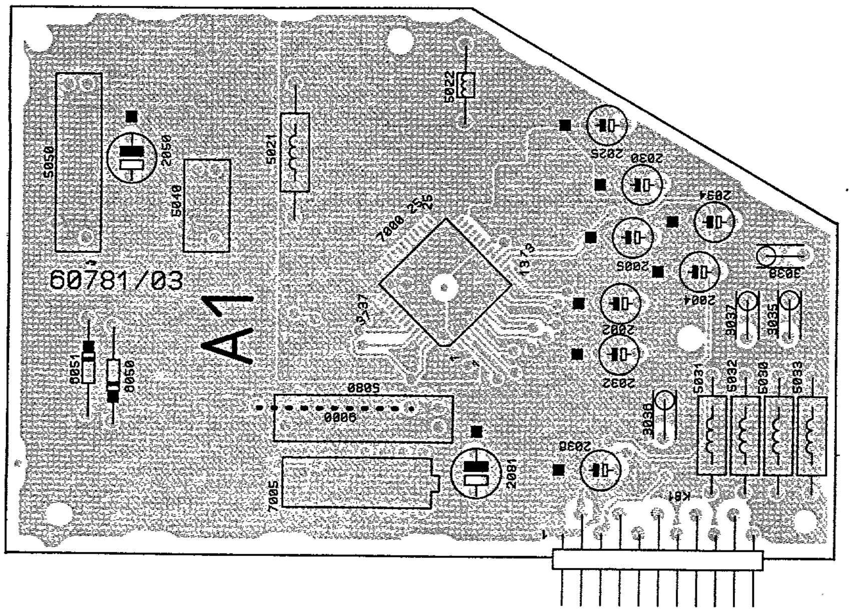
7081	B2
7082	B2
7083	C2
7090	B4
7091	B5
7092	A4
9000	B4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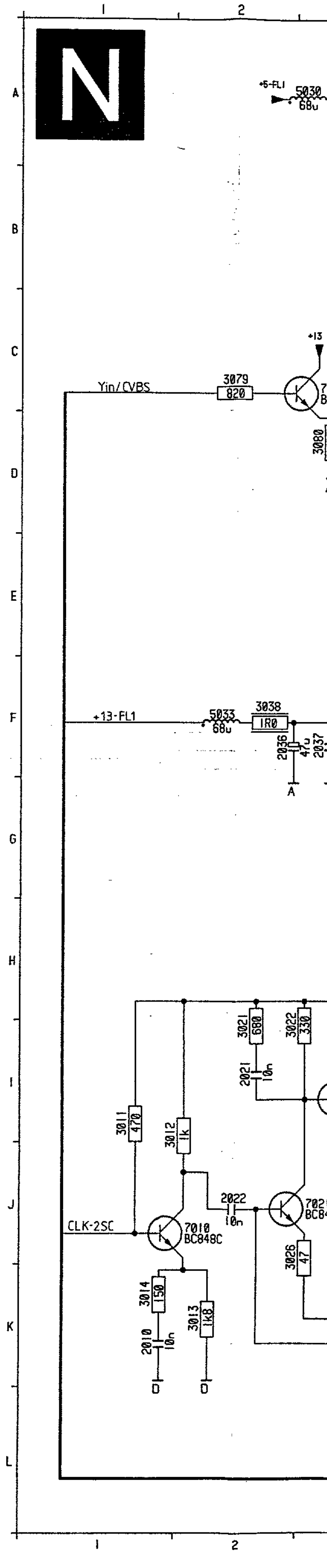
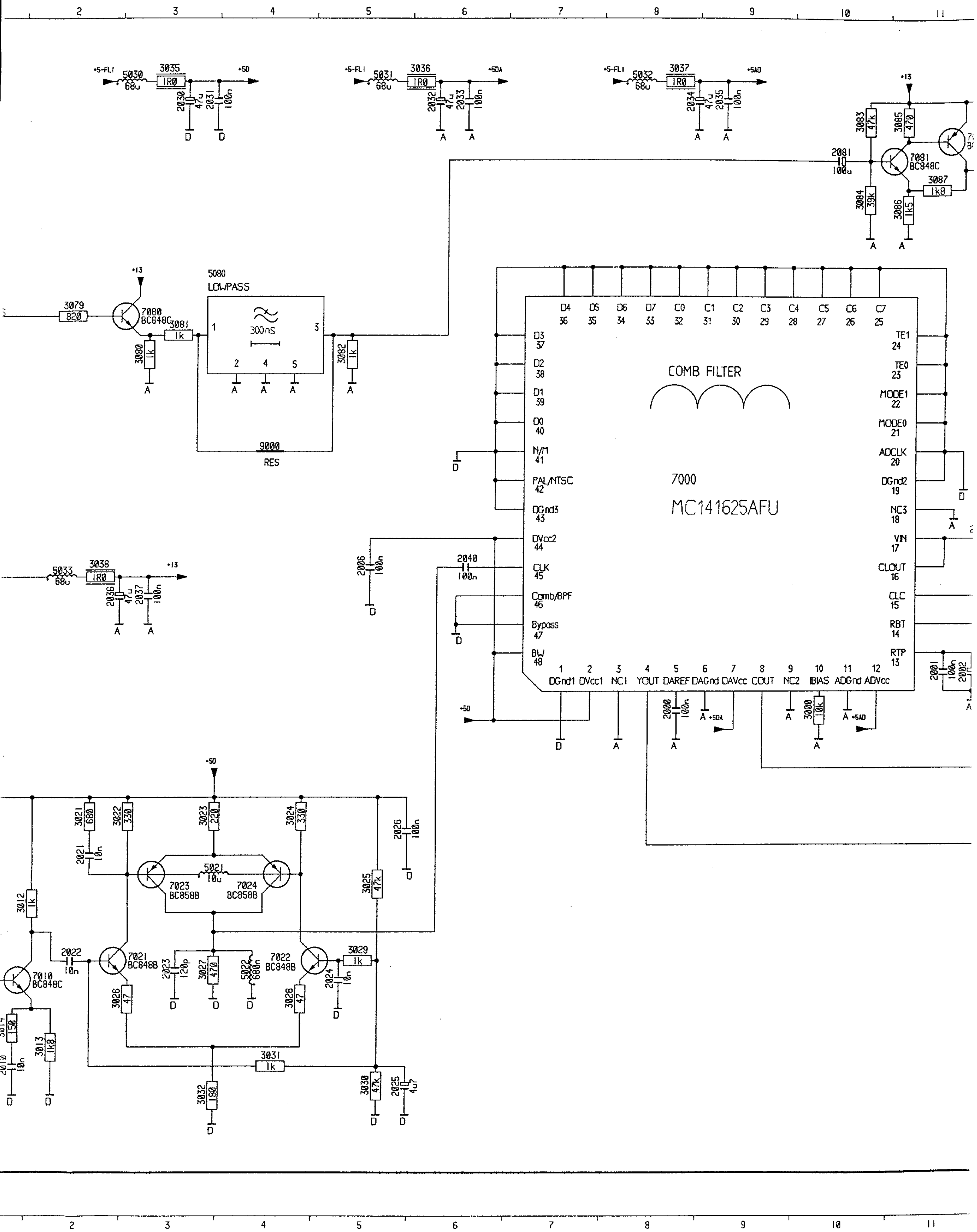
A1
5050
5040
5021
5022
7005
2081
KB1


N
+5-FL1
5030
68u
+13
Yin/CVBS
3079
820
3080
+13-FL1
5033
68u
3038
1R0
2036
47u
2037
3021
680
3022
330
2021
10n
3011
470
3012
1k
2022
10n
7010
BC848C
CLK-2SC
3026
47
3014
150
3013
1k8
2010
10n
A
B
C
D
E
F
G
H
I
J
K
L
1
2

Comb filter / Kamm-Filter / Filtre en peigne



2
3
4
5
6
7
8
9
10
11
+5-FL1
5030
68u
3035
1R0
+5D
2030
47u
2031
100n
D
+5-FL1
5031
68u
3036
1R0
+5DA
2032
47u
2033
100n
A
+5-FL1
5032
68u
3037
1R0
+5AD
2034
47u
2035
100n
A
+13
3083
47k
3085
470
2081
100u
7081
BC848C
3087
1k8
3084
39k
3086
1k5
A
+13
5080
LOWPASS
3079
820
7080
BC848C
3081
1k
3080
1k
300nS
1
2
3
4
5
3082
1k
9000
RES
A
D4
D5
D6
D7
C0
C1
C2
C3
C4
C5
C6
C7
36
35
34
33
32
31
30
29
28
27
26
25
D3
37
D2
38
D1
39
D0
40
N/M
41
PAL/NTSC
42
DGnd3
43
DVcc2
44
CLK
45
Comb/BPF
46
Bypass
47
B/W
48
TE1
24
TE0
23
MODE1
22
MODE0
21
ADCLK
20
DGnd2
19
NC3
18
VIN
17
CLOUT
16
CLC
15
RBT
14
RTP
13
COMB FILTER
7000
MC141625AFU
1 DGnd1
2 DVcc1
3 NC1
4 YOUT
5 DAREF
6 DAGnd
7 DAVcc
8 COUT
9 NC2
10 IBIAS
11 ADGnd
12 ADVcc
2006
100n
2040
100n
+5D
2000
100n
A +5DA
3000
10k
A +5AD
2001
100n
2002
5033
68u
3038
1R0
+13
2036
47u
2037
100n
+5D
3021
680
3022
330
3023
220
3024
330
2026
100n
2021
10n
5021
10u
7023
BC858B
7024
BC858B
3025
47k
3012
1k
2022
10n
7021
BC848B
2023
120p
3027
470
5022
680n
7022
BC848B
3029
1k
2024
10n
7010
BC848C
3026
47
3028
47
3014
150
2010
10n
3013
1k8
3031
1k
3032
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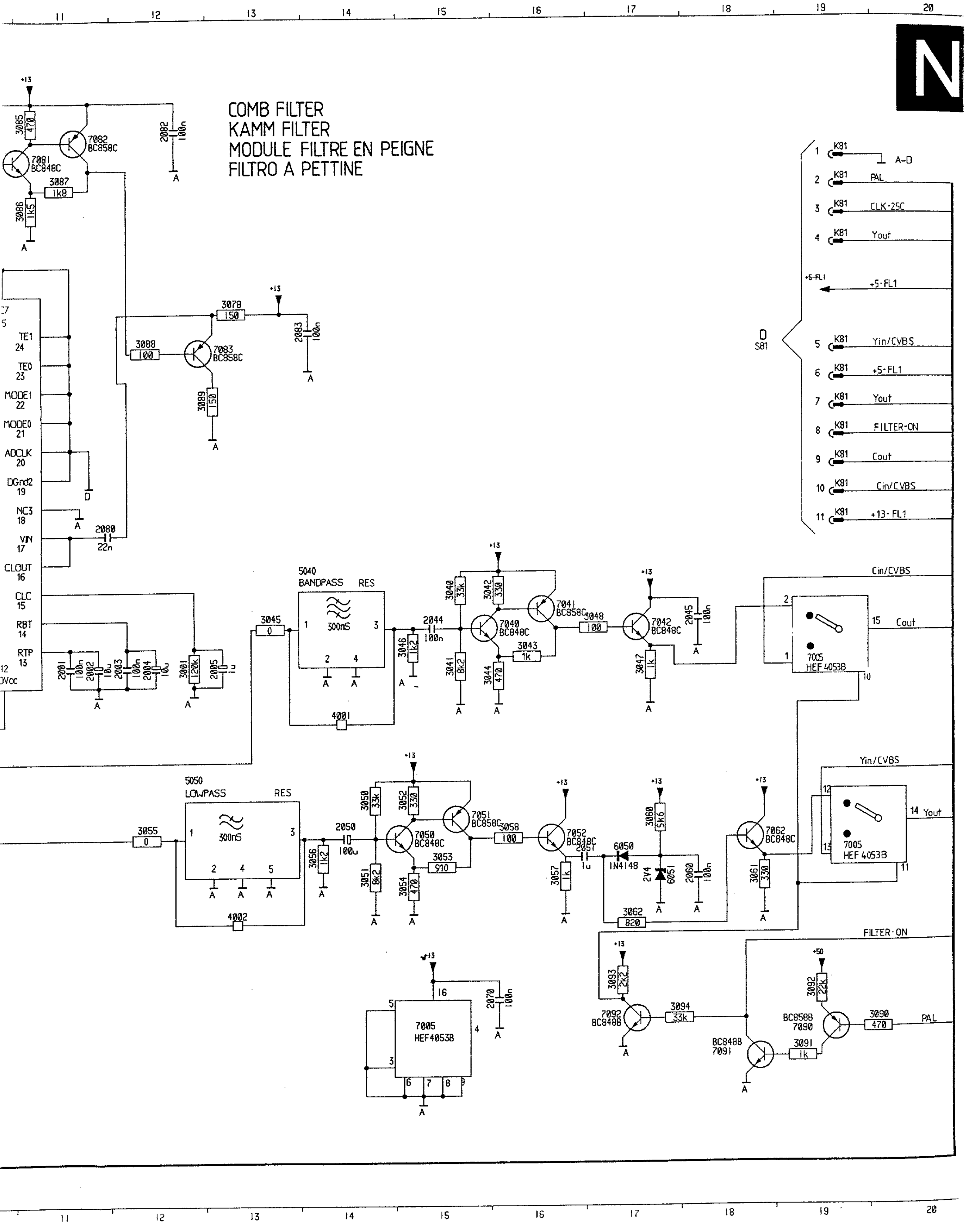
3030
47k
2025
4u7
D

N

COMB FILTER
KAMM FILTER
MODULE FILTRE EN PEIGNE
FILTRO A PETTINE



11
12
13
14
15
16
17
18
19
20
+13
3085 470
7082 BC858C
7081 BC848C
3087 1k8
3086 1k5
2082 100n
A
3079 150
3088 100
7083 BC858C
3089 150
2083 100n
TE1 24
TE0 23
MODE1 22
MODE0 21
ADCLK 20
DGnd2 19
NC3 18
VIN 17
CLOUT 16
CLC 15
RBT 14
RTP 13
D
2080 22n
2001 100n
2002 10u
2003 100n
2004 10u
3001 120k
2005 1u
1 K81 A-D
2 K81 PAL
3 K81 CLK-25C
4 K81 Yout
+5-FL1
+5-FL1
D S81
5 K81 Yin/CVBS
6 K81 +5-FL1
7 K81 Yout
8 K81 FILTER-ON
9 K81 Cout
10 K81 Cin/CVBS
11 K81 +13-FL1
5040 BANDPASS RES
300nS
3045 0
4001
2044 100n
3040 33k
3041 8k2
3042 330
3046 1k2
7040 BC848C
7041 BC858C
3043 1k
3044 470
3048 100
7042 BC848C
2045 100n
3047 1k
Cin/CVBS
15 Cout
7005 HEF4053B
5050 LOWPASS RES
3055 0
4002
2050 100u
3050 33k
3051 8k2
3052 330
3056 1k2
7050 BC848C
7051 BC858C
3053 910
3054 470
3058 100
7052 BC848C
2051 1u
3057 1k
6050 1N4148
3060 5k6
6051 2V4
2060 100n
3062 820
7062 BC848C
3061 330
Yin/CVBS
14 Yout
7005 HEF 4053B
FILTER-ON
7005 HEF4053B
2070 100n
3093 2k2
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+50
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BC858B 7090
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PAL
BC848B 7091
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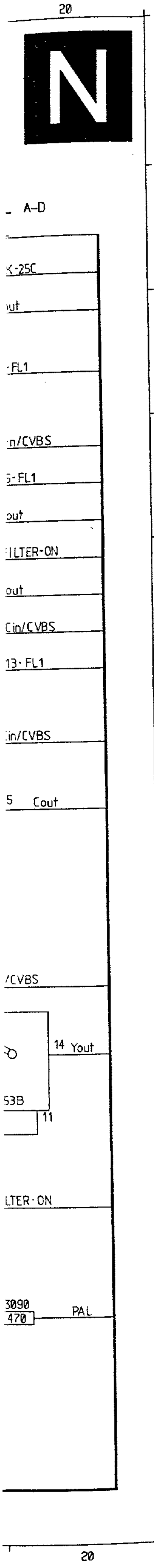
20
N
A–D
K-25C
out
-FL1
in/CVBS
5-FL1
out
ILTER-ON
out
Cin/CVBS
13-FL1
in/CVBS
5 Cout
/CVBS
14 Yout
53B
11
LTER-ON
3090
470
PAL
20
A
B
C
D
E
F
G
H
I
J
K
L

2000	G 8	K81	B19
2001	G11	K81	B19
2002	G11	K81	C19
2003	G12	K81	D19
2004	G12	K81	D19
2005	G13	K81	D19
2006	F 5	K81	E19
2010	K 1	K81	E19
2021	I 2	K81	E19
2022	J 2	K81	E19
2023	J 3		
2024	J 5		
2025	K 5		
2026	I 5		
2030	A 3		
2031	A 3		
2032	A 6		
2033	A 6		
2034	A 8		
2035	A 9		
2036	F 2		
2037	F 3		
2038	B18		
2040	F 6		
2044	G15		
2045	G18		
2050	I14		
2051	I16		
2060	I18		
2070	K16		
2080	F11		
2081	B10		
2082	A12		
2083	D14		
3000	G10		
3001	G12		
3011	I 1		
3012	I 1		
3013	K 2		
3014	K 1		
3021	I 2		
3022	I 2		
3023	I 3		
3024	I 4		
3025	I 5		
3026	J 2		
3027	J 3		
3028	J 4		
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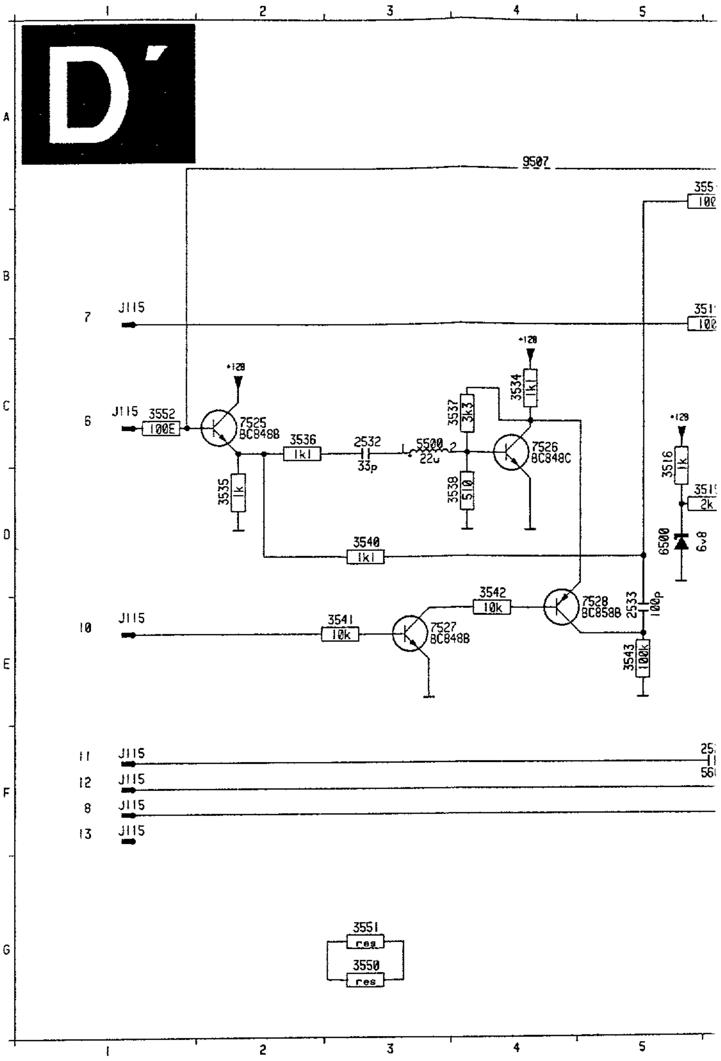
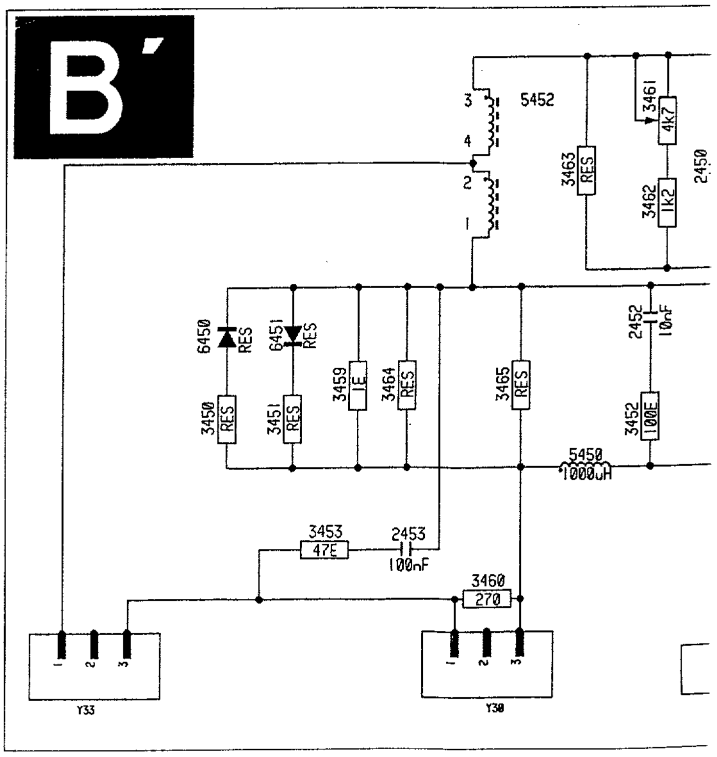
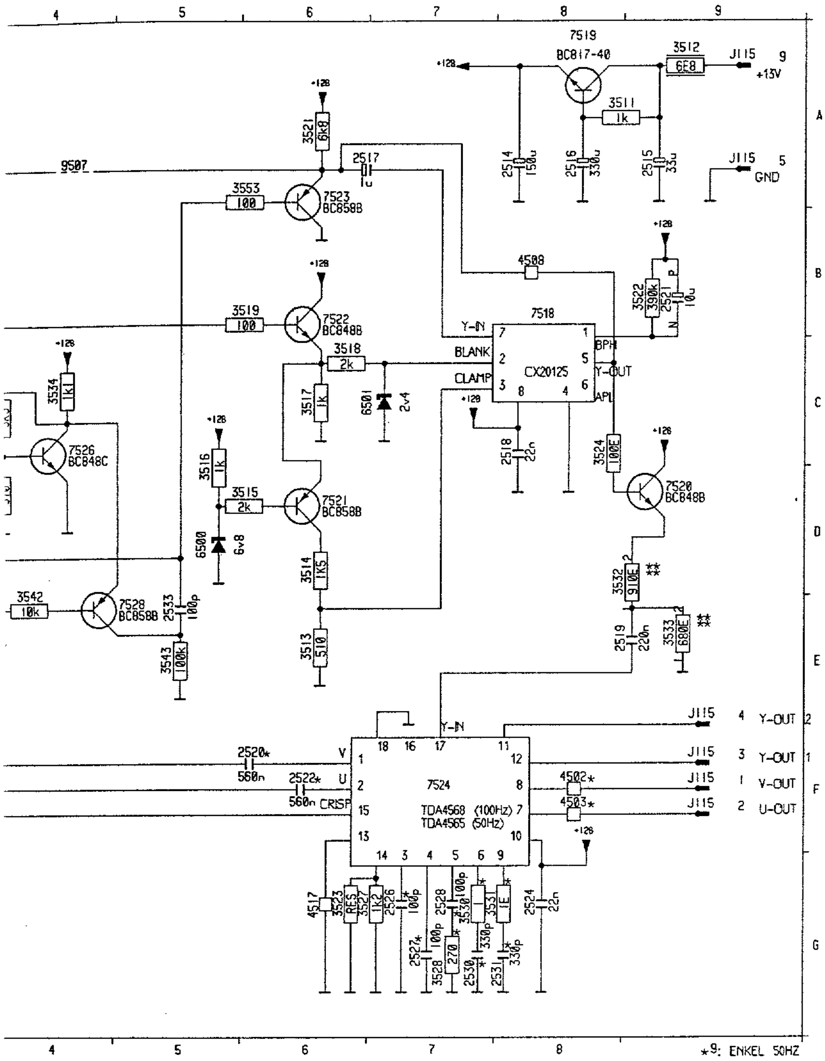
3050	H14		
3051	I14		
3052	H15		
3053	I15		
3054	I15		
3055	I12		
3056	I14		
3057	I16		
3058	I16		
3060	I17		
3061	I18		
3062	J17		
3078	C13		
3079	C 2		
3080	D 3		
3081	C 3		
3082	D 5		
3083	A10		
3084	B10		
3085	A11		
3086	B11		
3087	B11		
3088	D12		
3089	D12		
3090	K20		
3091	K19		
3092	J19		
3093	J17		
3094	K17		
4001	H14		
4002	J13		
5021	I 3		
5022	J 4		
5030	A 3		
5031	A 5		
5032	A 8		
5033	F 2		
5040	F13		
5050	H12		
5080	C 3		
6050	I17		
6051	I17		
7000	E 8		
7005	K15		
7005	G19		
7005	I19		
7010	J 2		
7021	J 3		
7022	J 4		
7023	I 3		
7024	I 4		
7040	G16		
7041	F16		
7042	G17		
7050	I15		
7051	I15		
7052	I16		
7062	I18		
7080	C 3		
7081	B11		
7082	B11		
7083	D13		
7090	K19		
7091	K18		
7092	K17		
9000	E 4		
K81	B19		

Black stretch


D´
1
2
3
4
5
A
B
C
D
E
F
G
9507
J115
7
6
10
11
12
8
13
3552
100E
7525
BC848B
+12D
3535
1k
3536
1k1
2532
33p
5500
22u
3537
3k3
3534
1k1
3539
510
7526
BC848C
3540
1k1
3541
10k
7527
BC848B
3542
10k
7528
BC858B
2533
100p
3543
100k
3516
1k
6500
6v8
3551
res
3550
res

North-South (only 29")

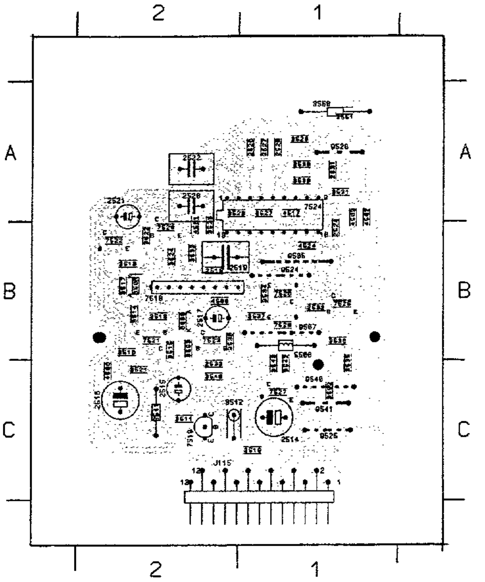

B´
5452
3
4
2
1
3461
4k7
3463
RES
3462
1k2
2450
6450
RES
6451
RES
3450
RES
3451
RES
3459
1E
3464
RES
3465
RES
2452
10nF
3452
100E
5450
1000uH
3453
47E
2453
100nF
3460
270
Y33
Y30


7519
BC817-40
3512
6E8
J115 9 +13V
+12B
3511
1k
2514 150u
2516 330u
2515 33u
J115 5 GND
3521 6k8
9507
2517 1u
3553 100
7523 BC858B
3519 100
7522 BC848B
4508
3522 390k
2521 10u
7518
CX20125
Y-IN
BLANK
CLAMP
BPH
Y-OUT
APL
3518 2k
6501 2v4
3517 1k
2518 22n
3534 1k
7526 BC848C
3516 1k
3515 2k
7521 BC858B
3524 100E
7520 BC848B
6500 6v8
3514 1K5
3532 910E **
3542 10k
7528 BC858B
2533 100p
3513 510
3543 100k
2519 220n
3533 680E **
7524
TDA4568 (100Hz)
TDA4565 (50Hz)
Y-IN
2520* 560n V
2522* 560n U
CRISP
J115 4 Y-OUT
J115 3 Y-OUT
J115 1 V-OUT
J115 2 U-OUT
4502*
4503*
4517
3523 RES
3527 1k2
2526 100p
2528 100p
3530 1E
3531 1E
2524 22n
2527* 100p
3528 270
2530* 330p
2531* 330p
A B C D E F G
4 5 6 7 8 9
*9: ENKEL 50HZ

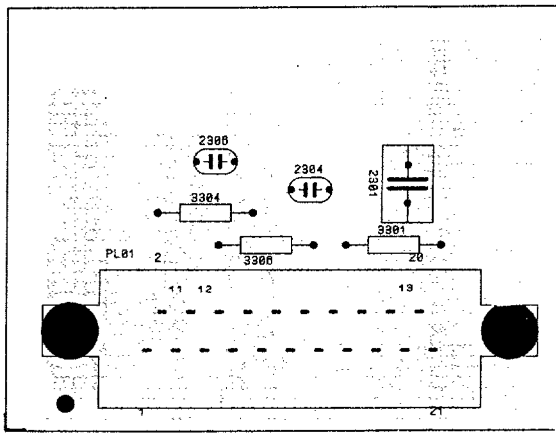
2514	A	8
2515	A	9
2516	A	8
2517	A	6
2518	C	8
2519	E	9
2520	F	6
2521	B	9
2522	F	6
2524	G	8
2526	G	7
2527	G	7
2528	G	7
2530	G	7
2531	G	8
2532	C	3
2533	E	5
3511	A	8
3512	A	9
3513	E	6
3514	D	6
3515	D	6
3516	C	5
3517	C	6
3518	C	6
3519	B	6
3521	A	6
3522	B	9
3523	G	6
3524	C	8
3527	G	7
3528	G	7
3530	G	7
3531	G	8
3532	D	8
3533	E	9
3534	C	4
3535	D	2
3536	C	2
3537	C	4
3538	D	4
3540	D	3
3541	E	3
3542	E	4
3543	E	5
3550	G	3
3551	G	3
3552	C	1
3553	A	6
4502	F	8
4503	F	8
4508	B	8
4517	G	6
5500	C	3
6500	D	5
6501	C	6
7518	B	8
7519	A	8
7520	D	9
7521	D	6
7522	B	6
7523	A	6
7524	F	7
7525	C	2
7526	C	4
7527	E	3
7528	E	5
9507	A	4
J115	F	9
J115	F	9
J115	F	9
J115	E	9
J115	A	9
J115	C	1
J115	B	1
J115	F	1
J115	A	9
J115	E	1
J115	F	1
J115	F	1
J115	F	1

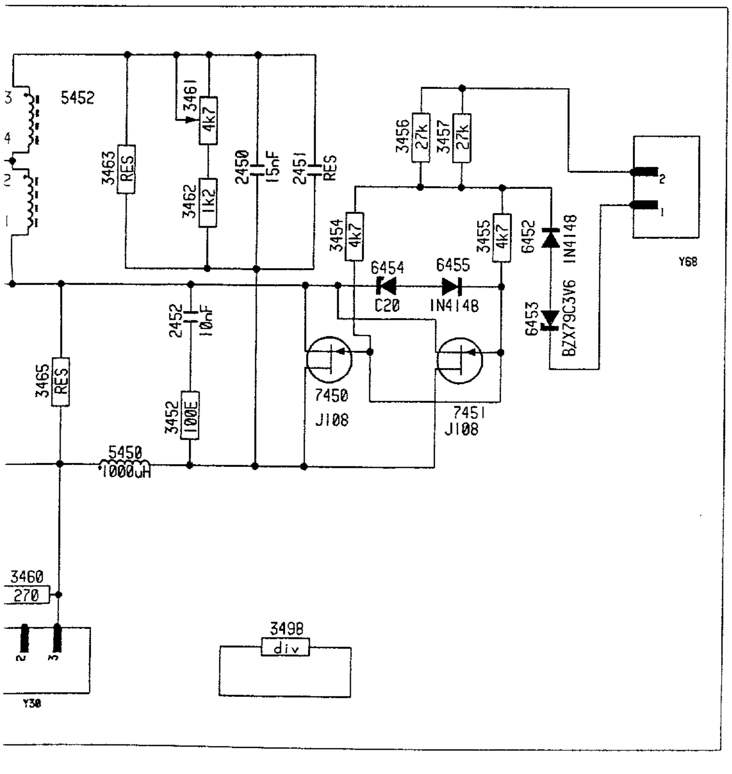
Black stretch

[illegible]	2524 B 1	3512 [illegible]	3522 B 2	3534 B [illegible]	[illegible]	4517 A 1	7522 [illegible]	[illegible]
2515 C 2	2526 A 1	3513 B 2	3523 B 2	[illegible]	[illegible]	4524 B 1	7523 B 1	9526 B 1
2516 C 2	2527 A 1	3514 B 2	3524 B 2	3536 B 1	[illegible]	5500 B 1	7524 A 2	[illegible]
2517 B 2	2528 A 1	3515 B 2	3527 A 1	3537 B 1	3553 B 2	5500 B 2	7525 B 1	9540 [illegible]
2518 B 2	2530 A 1	3516 B 2	3528 A 1	3538 B 2	4501 B 2	5501 B 2	7526 B 1	9541 [illegible]
2519 B 2	2531 A 1	3517 B 2	3530 A 1	3540 C 2	4502 A 1	7518 B 2	7527 C 1	[illegible]
2520 A 2	2532 B 1	3518 B 2	3531 A 1	3541 C 2	4503 A 1	7519 C 2	7528 B 1	
2521 A 2	2533 C 2	3519 C 1	3532 B 2	3542 C 1	4505 C 2	7520 B 2	9507 B 1	
2522 A 2	3511 C 2	3521 C 2	3533 B 2	3543 C 1	4508 B 2	7521 B 2	9524 B 1	


2
1
A
B
C
A
B
C
J115
2
1

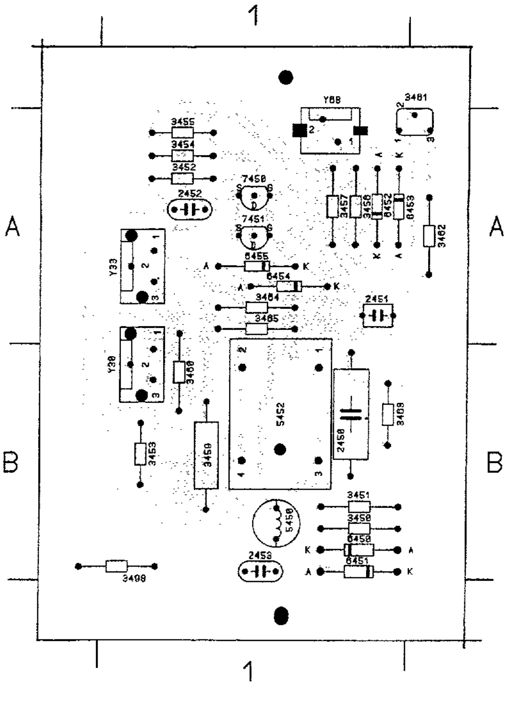
Euro AV3 Connector


2300
2304
2301
3304
3301
3300
PL01
2
20
11
12
13
1
21


5452
3461 4k7
3463 RES
3462 1k2
2450 15nF
2451 RES
3456 27k
3457 27k
3454 4k7
6454 C20
6455 1N4148
3455 4k7
6452 1N4148
6453 BZX79C3V6
Y68
2452 10nF
3465 RES
3452 100E
7450 J108
7451 J108
5450 1000uH
3460 270
3498 div
Y30

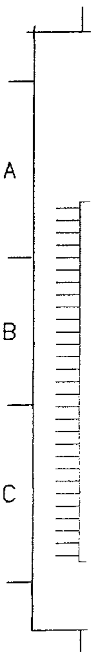
North-South (29")

2450 B 1	3451 B 1	3455 A 1	3463 B 1	5452 B 1	6454 A 1	Y33 A 1
2451 A 1	3452 A 1	3457 A 1	3464 A 1	6450 B 1	6455 A 1	Y68 A 1
2452 A 1	3453 B 1	3459 B 1	3465 A 1	6451 B 1	7450 A 1	
2453 B 1	3454 A 1	3460 A 1	3498 B 1	6452 A 1	7451 A 1	
3452 B 1	3455 A 1	3461 A 1	5452 B 1	6453 A 1	Y30 B 1	


1
A
B
A
B
Y68
3461
3455
3454
3452
2452
7450
7451
Y33
6455
6454
3464
3465
2451
Y30
3460
3457
3456
6452
6453
3462
5452
2450
3459
3453
3451
3450
6450
6451
5450
2453
3498
1

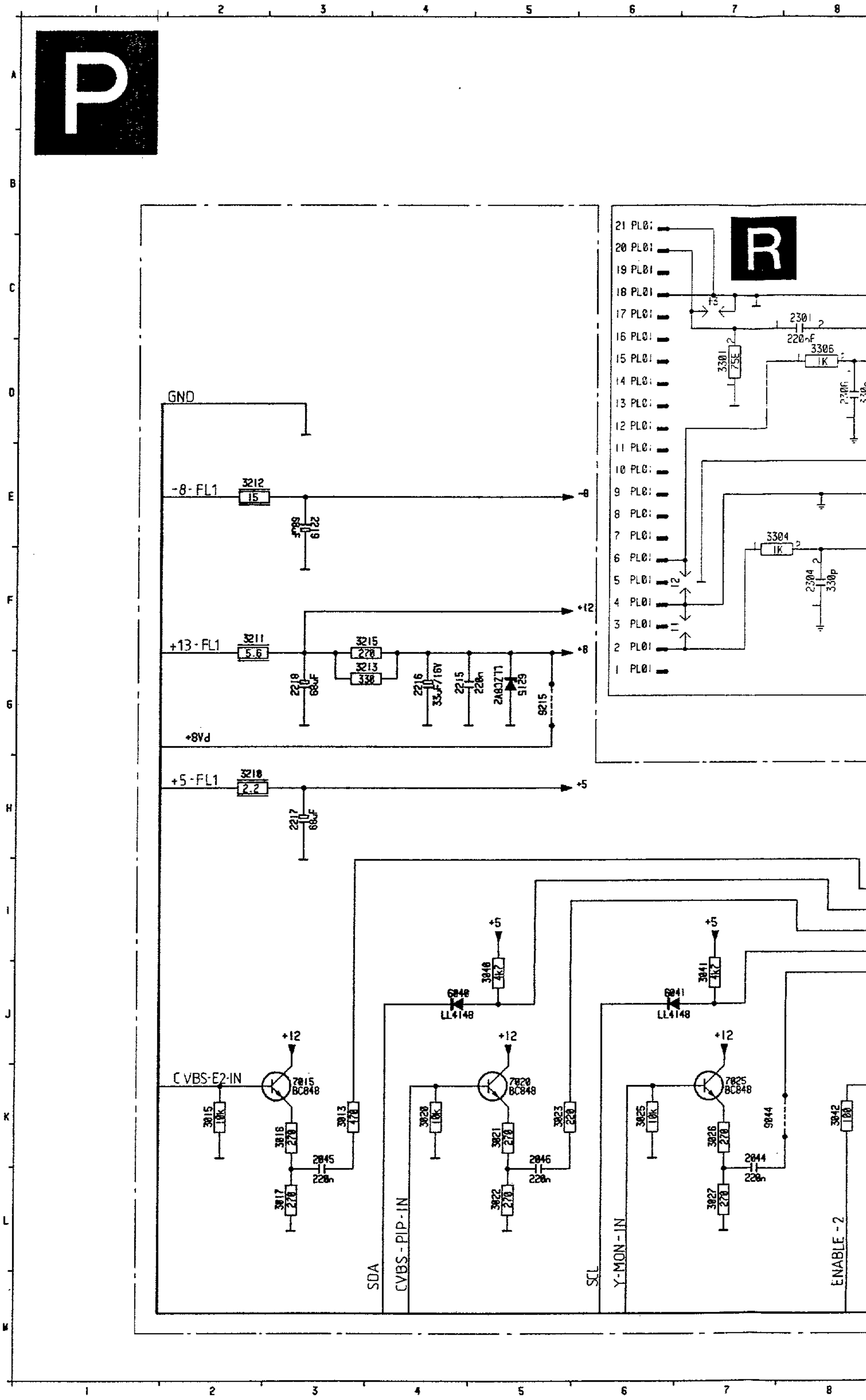
Euro

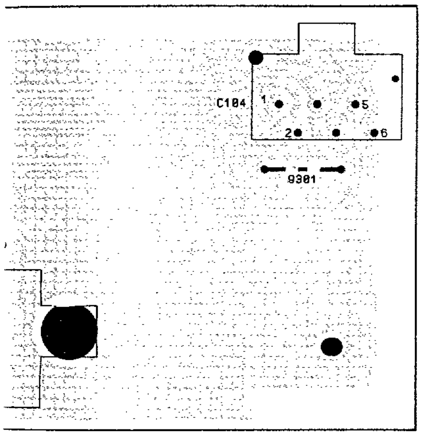
Eurc



Euro AV3 Interface / Connector

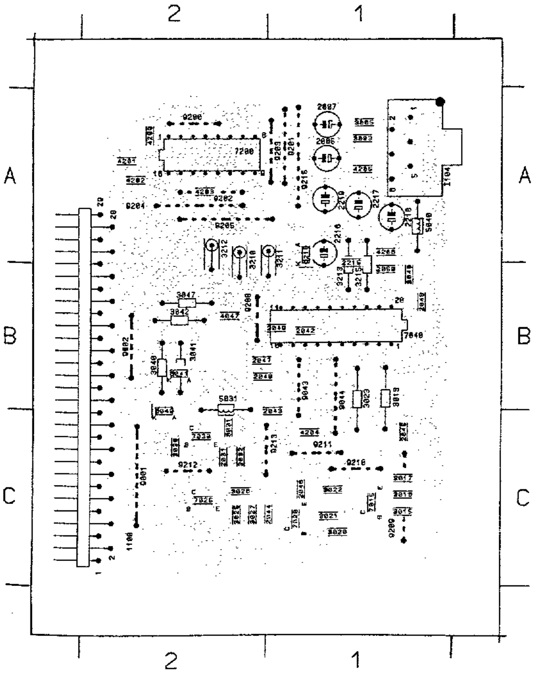
Inter


P
R
GND
-8-FL1
3212
15
2219 68µF
+13-FL1
3211
5.6
2218 68µF
3215 270
3213 330
2216 33µF/16V
2215 220n
2A0ZZ11 5129
9215
+8Vd
+5-FL1
3218
2.2
2217 68µF
-8
+12
+8
+5
21 PL01
20 PL01
19 PL01
18 PL01
17 PL01
16 PL01
15 PL01
14 PL01
13 PL01
12 PL01
11 PL01
10 PL01
9 PL01
8 PL01
7 PL01
6 PL01
5 PL01
4 PL01
3 PL01
2 PL01
1 PL01
3301 75E
2301 220nF
3306 1K
3304 1K
2304 330p
CVBS-E2-IN
7015 BC848
3015 10k
3016 270
3017 270
2045 220n
3013 470
+12
+5
3040 4K7
6040 LL4148
7020 BC848
3020 10k
3021 270
3022 270
2046 220n
3023 220
3041 4K7
6041 LL4148
7025 BC848
3025 10k
3026 270
3027 270
2044 220n
9044
3042 100
SDA
CVBS-PIP-IN
SCL
Y-MON-IN
ENABLE-2
1 2 3 4 5 6 7 8
A B C D E F G H I J K L M

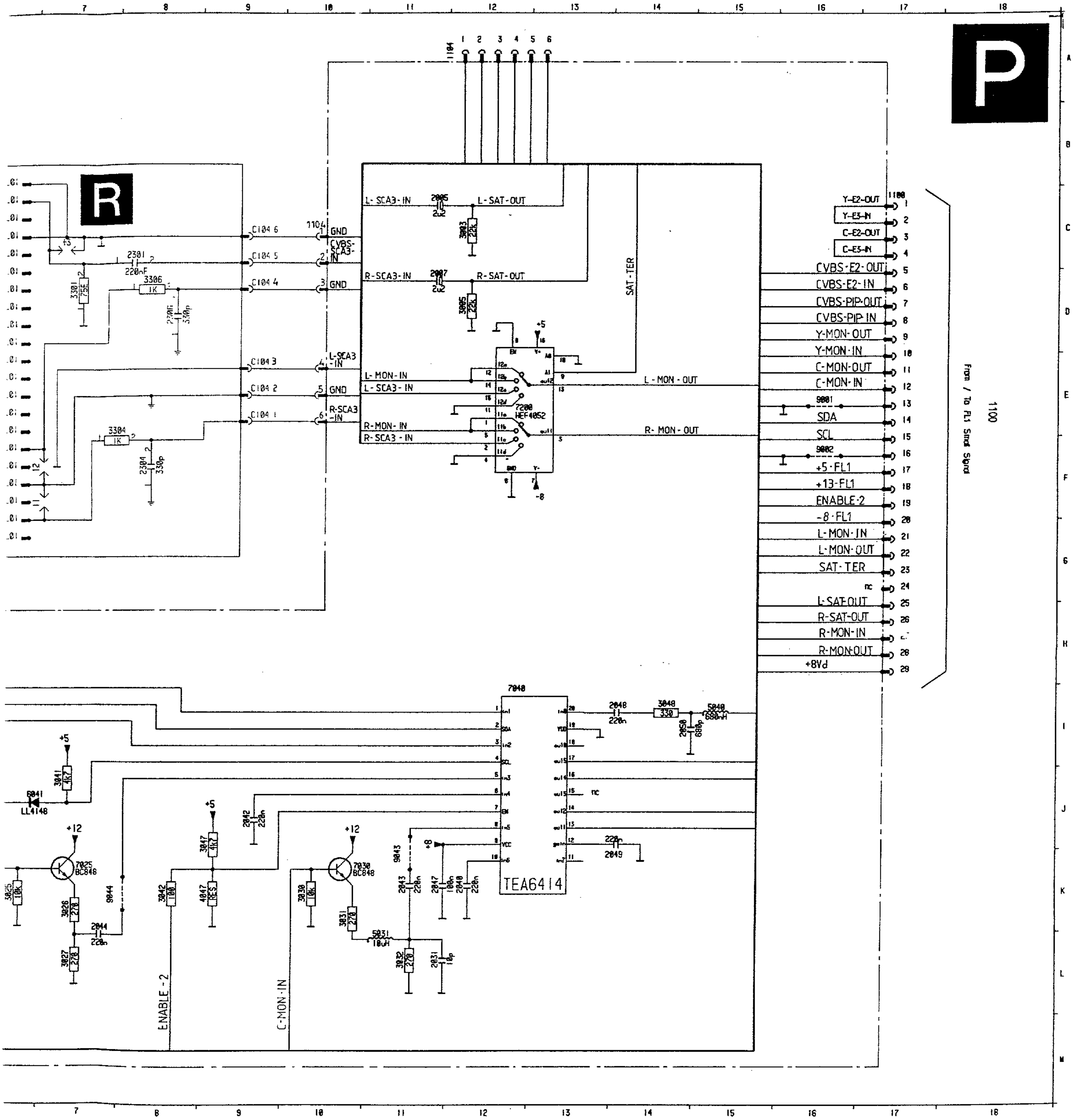

C104
1
2
5
6
9301

Euro AV3 Interface

1100 C 2
2005 A 1
2007 A 1
2031 C 2
2040 B 2
2042 B 1
2043 B 1
2044 C 1
2045 C 1
2046 C 1
2047 B 2
2048 B 1
2049 B 1
2050 B 1
2215 A 1
2216 B 1
2217 A 1
2218 A 1
2219 A 1
3003 A 1
3005 A 1
3013 C 1
3015 C 1
3016 C 1
3017 C 1
3020 C 1
3021 C 1
3022 C 1
3023 C 1
3025 C 2
3026 C 2
3027 C 2
3030 C 2
3031 C 2
3032 C 2
3040 B 2
3041 B 2
3042 B 2
3047 B 2
3048 B 1
3210 A 2
3211 A 1
3212 A 2
3213 A 1
3215 A 1
4047 B 2
4200 A 2
4201 A 2
4202 A 2
4203 A 2
4204 C 1
4205 A 1
4206 A 1
5031 B 2
5040 A 1
6040 B 2
6041 B 2
6215 A 1
7015 C 1
7020 C 1
7025 C 2
7030 C 2
7040 B 1
7200 A 2
9001 C 2
9002 B 2
9043 C 1
9044 C 1
9200 A 2
9201 A 1
9202 A 2
9203 A 1
9204 A 2
9205 A 1
9206 B 2
9209 C 1
9210 C 1
9211 C 1
9212 C 2
9213 C 1
9215 A 1
1104 A 1


2
1
A
B
C
7200
9200
9201
9202
9203
9204
9205
2007
2005
2216
2217
2218
2219
3212
3210
3211
3213
3215
5040
3047
3042
3040
3041
3048
7040
2042
2040
2047
2048
2049
5031
9043
9041
3023
3019
9211
9212
9210
9209
7030
7025
7020
1100
1104
9001
9002
20
1
2

Interface / Branchement Euro AV3


P
R
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1 2 3 4 5 6
1100
L-SCA3-IN
2005 2u2
L-SAT-OUT
3003 22k
R-SCA3-IN
2007 2u2
R-SAT-OUT
3005 22k
SAT-TER
+5
7200 HEF4052
L-MON-IN
L-SCA3-IN
R-MON-IN
R-SCA3-IN
L-MON-OUT
R-MON-OUT
-8
GND
CVBS-SCA3-IN
GND
L-SCA3-IN
GND
R-SCA3-IN
C104 6
C104 5
C104 4
C104 3
C104 2
C104 1
2301 220nF
3301 75E
3306 1K
2306 330p
3304 1K
2304 330p
Y-E2-OUT
Y-E3-IN
C-E2-OUT
C-E3-IN
CVBS-E2-OUT
CVBS-E2-IN
CVBS-PIP-OUT
CVBS-PIP-IN
Y-MON-OUT
Y-MON-IN
C-MON-OUT
C-MON-IN
9001
SDA
SCL
9002
+5-FL1
+13-FL1
ENABLE-2
-8-FL1
L-MON-IN
L-MON-OUT
SAT-TER
nc
L-SAT-OUT
R-SAT-OUT
R-MON-IN
R-MON-OUT
+8Vd
From / To FL1 Small Signal
7040
TEA6414
2048 220n
3048 330
5040 680nH
2050 680p
nc
2049 220n
+5
3041 4K7
6041 LL4148
+12
7025 BC848
3025 10k
3026 270
3027 270
2044 220n
9044
+5
2042 220n
3047 4K7
3042 100
4047 RES
+12
7030 BC848
3030 10k
3031 270
5031 10uH
3032 270
2031 10p
9043
+8
2043 220n
2047 100n
2040 220n
ENABLE-2
C-MON-IN
7 8 9 10 11 12 13 14 15 16 17 18
A B C D E F G H I J K L M

1100	C17
2005	C11
2007	D11
2031	L11
2040	K12
2042	J 9
2043	K11
2044	K 7
2045	K 3
2046	K 5
2047	K11
2048	I14
2049	J14
2050	I14
2215	G 4
2216	G 4
2217	H 3
2218	G 3
2219	E 3
3003	C12
3005	D12
3013	K 3
3015	K 2
3016	K 3
3017	L 3
3020	K 4
3021	K 5
3022	L 5
3023	K 5
3025	K 6
3026	K 7
3027	L 7
3030	K10
3031	K10
3032	L11
3040	J 5
3041	J 7
3042	K 8
3047	J 9
3048	I14
3210	H 2
3211	F 2
3212	E 2
3213	G 3
3215	F 3
4047	K 9
5031	L11
5040	I15
6040	J 4
6041	J 6
6215	G 5
7015	K 3
7020	K 5
7025	K 7
7030	K10
7040	I12
7200	E12
9001	E16
9002	F16
9043	K11
9044	K 7
9215	G 5
1104	A11

7. Electrical adjustments

Setting conditions

- Unless stated otherwise, the supply voltage used is: 220 - 240V ± 10%; 50 - 60Hz ± 5%
- Voltages and oscillograms are measured in elation to tuner earth. **Never** use the cooling plates as earth.
- Warming-up time ≈ 10 minutes
- For all measurements it is true that:
- probe Ri > 1MΩ; Ci < 10pF

1. Electrical settings on the large signal panel

1.1 +141V supply voltage

Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to + 141V ±0.5V.

1.2 +5V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 8 of L02
Adjust the voltage to 5.4V using R3558

1.3 +13V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 6 of connector L02
Adjust the voltage to 14.2V using R3234.

1.4 Focusing

This is set with the focus potentiometer (top one on the Line output transformer/DAF Unit).

1.5 Dynamic 1) Astigmatic focus

This is set with the aid of the potentiometer on the bottom right of the DAF transformer. Repeat the adjustment of the Vg2 and focus.

1.6 Vg2 setting

Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.
Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer/DAF unit) to 150V ±2V.

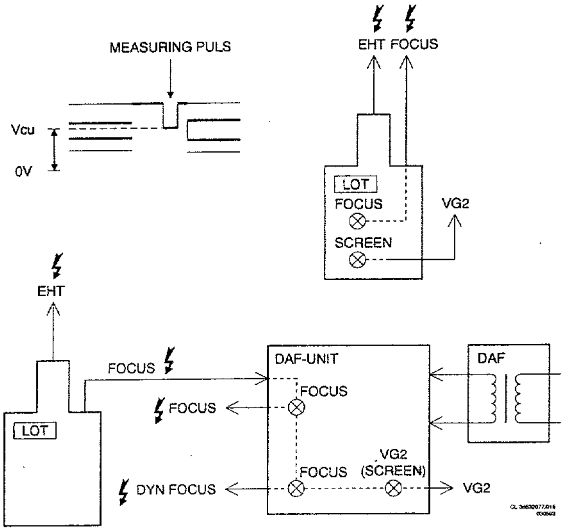


Fig. 7.1

1.7 Horizontal synchronisation

Connect point 5-IC7400 to point 9-IC7400.
Supply an aerial signal and set the receiver.
Adjust potentiometer R3406 until the picture is straight.
Break the through connection.

1.8 Horizontal centring

Feed in a test pattern that makes the horizontal linearity visible (e.g. a symmetrical cross pattern or a test circle). Adjust the DC offset current through the horizontal deflection coil using R3513 so that the horizontal linearity is optimal (the distance between the two vertical lines should be equal on both the left and right hand sides of the picture). It is also possible to use a ruler for this purpose. The picture can then be centred using R3415.

1.9 Picture width

Set using potentiometer R3607.

1.10 Vertical centring

Set using potentiometer R3467.

1.11 Picture height

Set using potentiometer R3410.

1.12 Picture height

Movie expand on: set using potentiometer R3422.
Movie expand off: set using potentiometer R3410.

1.13 East/West correction

Set using potentiometer R3602.

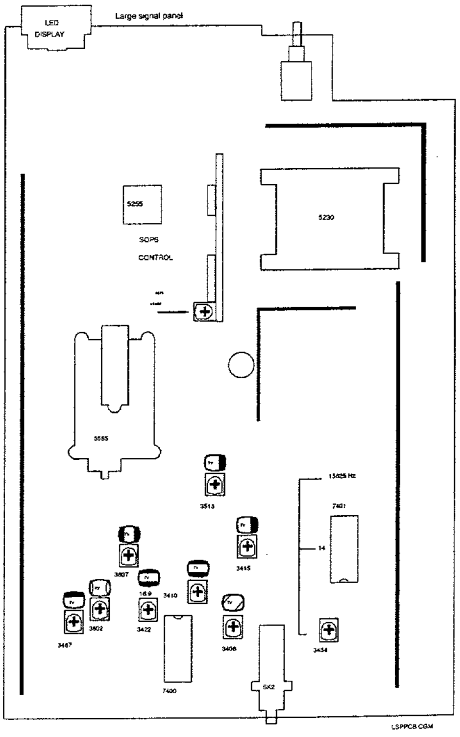


Fig. 7.2

2. E

2.1 S

2.2 4

2.3 E

2.3.1 C

2.3.2 4.

2.3.3 6.

2.3.4 C

2.3.5 C

2.3.6 S

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation

Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).
Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.
Connect an oscilloscope to pin 3 of Euroconnector EXT1
Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2.2 4.43 MHz chroma suppression circuit

Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

2.3 Electrical settings IC7365 (TDA4650)

2.3.1 Chroma bandpassfilter

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7365 to pin 13-IC7365 (+12V). Connect an oscilloscope to pin 15-IC7365.
Set L5345 to maximum amplitude.
Remove the interconnection.

2.3.2 4.50 MHz NTSC sound suppression

Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV$_{rms}$.
Connect point 26-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.3 6.50 MHz SECAM DK sound suppression

Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV$_{rms}$.
Connect point 28-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.4 Chroma 8,87 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set C2380 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.5 Chroma 7,16 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set R2379 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.6 SECAM demodulators

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 3-IC7365. Set L5370 to minimum amplitude.
Connect the oscilloscope to pin 1-IC7365. Set R3370 to minimum amplitude.

SMALL SIGNAL PANEL

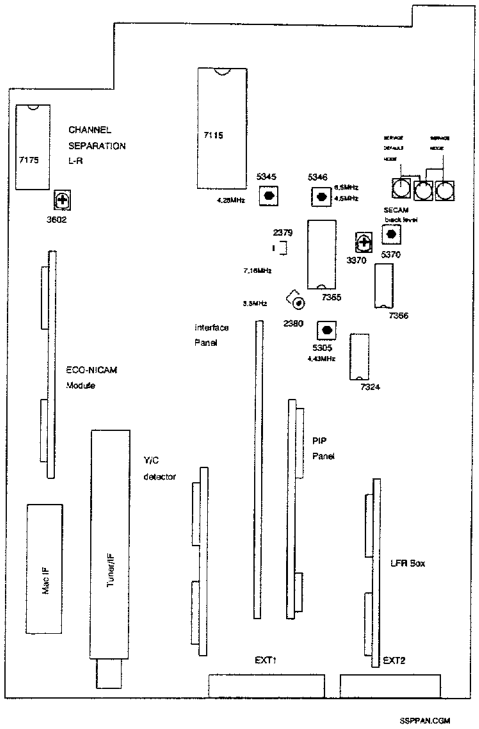

7175
CHANNEL
SEPARATION
L-R
3602
7115
4,28MHz
5345
5346
6,5MHz
4,5MHz
SECAM
back level
2379
7,16MHz
3370
5370
3,5MHz
7365
7366
2380
5305
4,43MHz
7324
Interface
Panel
ECO-NICAM
Module
Y/C
detector
PIP
Panel
LFR Box
Mac IF
Tuner/IF
EXT1
EXT2
SSPPAN.CGM

Fig. 7.3

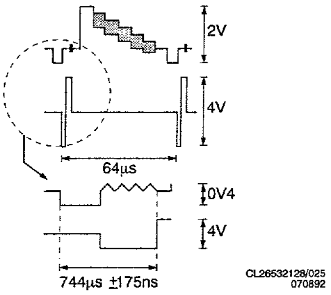

2V
4V
64μs
0V4
4V
744μs ±175ns
CL26532128/025
070892

Fig. 7.4

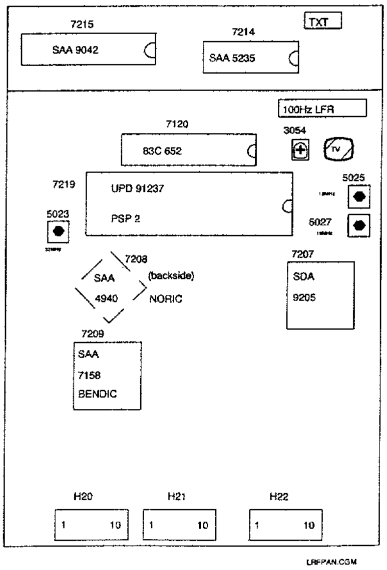

7215
SAA 9042
7214
SAA 5235
TXT
100Hz LFR
7120
83C 652
3054
TV
7219
UPD 91237
PSP 2
5025
5023
5027
7208
SAA
4940
(backside)
NORIC
7207
SDA
9205
7209
SAA
7158
BENDIC
H20
H21
H22
1
10
1
10
1
10
LRFPAN.CGM

Fig. 7.5

Electrical adjustments

3. Electrical adjustments on the LFR box

3.1 Synchronisation

Connect point 5 of IC7216 to earth. Adjust R3054 until the picture is straight.
Remove the short circuit.

3.2 16MHz oscillator

Apply a PAL/SECAM signal. Measure the signals at point 1 of IC7219 and at point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5027 so that the positive-going flank of the signal at point 1 of IC7219 comes 7.62 µsec after the negative-going flank of the sync pulse in the video signal (point 5 of IC7216).

3.3 32MHz oscillator

Force the STABLE OSD command to the microprocessor, by disconnecting the set from a possible antenna inputsignal. Measure the frequency at point 41 of IC7208. Using L5023 set the frequency to 32 MHz ±50 KHz.

3.4 12MHz oscillator

Switch on compress.
Measure the signals on point 1 of IC7219 and on point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5025 so that the rising flank of the signal on point 1 of IC7219 comes 7.62 µsec after the negative flank of the sync pulse in the video signal (point 5 of IC7216).

4. Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment

Connect a frequency counter via a probe (Ci ≤15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND).
Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (±5Hz)

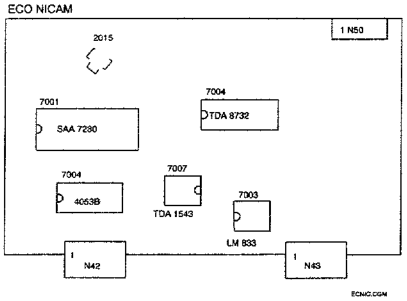


Fig. 7.6

5. Y/C detector adjustment

5.1 PAL/SECAM

Inject a chroma signal of 4.418 MHz/200mV on pin 15 of EXT2 SCART (PL05).
Connect an oscilloscope to the collector of T7266 (T7).
Using L5201 adjust the 4.418 MHz signal to maximum amplitude.

5.2 NTSC

As PAL/SECAM but with a signal of 3.582 MHz/200mV. Adjust with L5200.

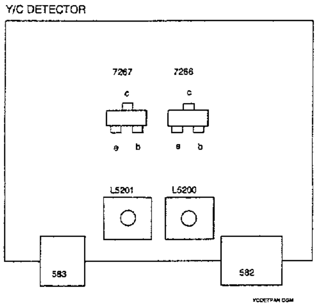


Fig. 7.7

6. Electrical settings on the PIP panel

Setting conditions

Before carrying out each setting, it should be ensured that a P.I.P. picture with colour bar is visible on the screen and the unit should have reached its operating temperature
(after ≈20 min.).

6.1 Horizontal synchronisation

Supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125.
Connect pin 5-IC7755 to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ±25 Hz with R3239.
Remove the short circuits.

6.2 AGC

If the picture from a strong local transmitter is distorted, adjust 3160 until the picture is not distorted.

6.3 Setting for PIP modules with TDA4554

6.3.1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125.
Connect an oscilloscope to pin 15-IC7125.
Set L5118 to maximum amplitude.
Remove the interconnection.

6.3.2 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth. Set C2202 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.3 NTSC chroma auxiliary oscillator

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set C2212 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.4 The delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

Electrical adjustments

6.3.5 *SECAM identification*

Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Adjust L5190 to maximum DC level.
Remove the interconnection.

6.3.6 *SECAM demodulators*

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set L5170, but now measure at pin 3-IC7125.
Remove the interconnection.

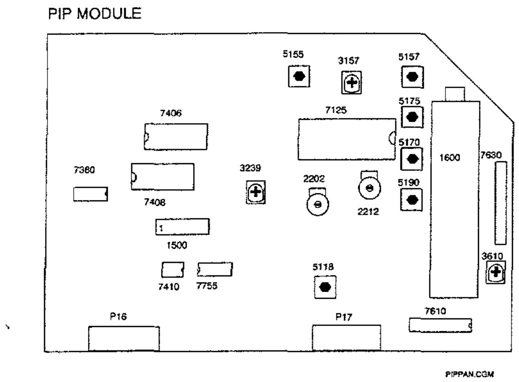
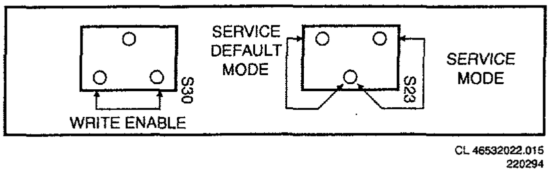


Fig. 7.8

7. Alignments in the Service Menu

The FL sets are equipped with EAROM protection. The EAROM protection will only work if pin 1 of IC7137 is high. If this point is made low by the pins of S30 on the SSP, the protection is switched off and the protected area can once more be written to. During adjustment in the service menu these pins must therefore remain connected together continuously.



7.1 Switch in the Service Menu by momentarily connecting together pins 2S323 and 1S323 on the small signal panel (diagram H). The Service Menu will then appear on the screen. The procedure is as follows:

- *Select the required alignment with the* coloured keys A to E.
- Change the values set using the "Menu +/-" key.
- Store the values set in the EAROM and leave the Service Menu by selecting STORE.

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

7.2 White Drive Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a white picture. (A black picture (e.g. VCR1) set at maximum brightness is also suitable).
Switch the Service Menu in.
Select the required white drive alignment by adjusting the colours red and blue in relation to green (green is the reference colour).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 44.
The factory setting for blue is then approx. 44.
The factory setting for red is then approx. 21.

7.3 Cut-off Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a black picture (e.g. VCR1).
Switch the service menu in.
Set the brightness level so that the picture just (but clearly) illuminates.
Using the Cut-off adjustments align the colour temperatures in such a manner that at minimum illumination of the picture they are the same as the colour temperatures at maximum brightness.
(At minimum picture illumination it is possible that one colour may dominate. This is however normal and does not have to be (fully) compensated with the cut-off alignment).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 28.
The factory setting for blue is then approx. 33.
The factory setting for red is then approx. 25.

7.4 Option Alignment

The microprocessor communicates with a great number of components in the set. For correct communication the microprocessor has to know what IC's and modules are present in the set. This is done using option codes. An incorrectly set option code will give a communication problem and an accompanying error code. Every function has been allocated a value. The sum of 8 values forms an option code. This number can vary from 0 to 255. The option code tables are given at the end of this paragraph.

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NIC
2nc

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10C
Cor

Opt

Opt
Fur
16:

Opt

Opt
Fur
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FL2
DA
Mo
Pict

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For example, a set has:

Option code 1

Function	*Value*
Front end FQ916/ME/IF	2
PIP module	8
NTSC-M	16
NICAM module	64
2nd front end on PIP module	128 +

Option code 1 is now:	**218**

Option code 2

Function	*Value*
100 Hz Digital Scan	4
100 Hz Digital Scan	64
Comb Filter	128 +

Option code 2 is now:	**196**

Option code 3

Function	*Value*
16:9 PTV	64 +

Option code 3 is now:	**64**

Option code 4:

Function	*Value*
50Hz-PIP	2
FL2/4 model	4
DAF	8
Mozaik screen on	32
Picture rotation	128 +

Option code 4 is now:	**174**

Option code 5

Function	*Value*
Third SCART (Euro AV3)	1
SCAVEM	2 +

Option code 5 is now:	**3**

Optioncode 1

Nbr.	**Function**
0	**Front end = FQ816 / FQ916** A reception of PAL BG or PAL BG and SECAM BG is now possible
1	**Front end = FQ844 / FQ944** Only reception of the UHF band is now possible
2	**Front end = FQ816/ME/IF / FQ916/ME/IF** Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
4	**Front end =FQ916/MF/IF** Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
8	**PIP module present** This makes it possible to show PIP (Picture in Picture) displays.
16	**NTSC-M reception possible** This is normally always in combination with front end FQ816/ME/IF or FQ816/MF/IF or FQ916/ME/IF or FQ916/MF/IF
32	**SECAM DK module fitted** In this case transmissions using the SECAM DK system can also be received.
64	**NICAM module fitted** In this case the digital sound with NICAM transmission can be received.
128	**Second front end for PIP fitted** .If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies.

Optioncode 2

Nbr.	**Function**
1	**Not in use**
2	**Not in use**
4	**100Hz** 0 for 50Hz or 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 64 further.
8-32	**Not in use**
64	**100Hz** 0 for 50Hz 1 for 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 4 further.
128	**Comb-filter** Select this bit for sets with a comb-filter with IC7000 = MC141625 on the comb-filter module (number 16 of option code 4 should now be zero).

Optioncode 3	
Nbr.	**Function**
1-32	**Not in use (SAT)**
64	**16:9 present**
128	**"Videocolor 36" Picture tube**

Optioncode 4	
Nbr.	**Function**
1	**Teletext Peaking Filter on/off for LFR box (Scandinavia)** In Scandinavia this number must be selected .
2	**50Hz-PIP in a 100Hz set** Applies to FLx.x7. Applies to Digital Scan sets (FLx.x4/FLx.x6) with the Multi-PIP possibility. (This option is 0 for the FL1.14 36" (no Multi-PIP))
4	**FL2/4 model** (see chapter 4 also)
8	**16:9 picture tube with DAF (Dynamic Astigmatic Focus)** Recognisable by the potentiometers for 'Focus' and 'VG2 (SCREEN)'; these are located on the DAF unit instead of on the high voltage transformer (LOT).
16	**Not in use**
32	**Mozaik screen on/off**
64	**Not in use**
128	**Picture rotation possible (frame rotation) (16:9)**

Optioncode 5	
Nbr.	**Function**
1	**Third SCART present**
2	**SCAVEM switchable present**
4	**Not in use**
8	**SCAVEM non switchable present**
16	**Auto TXT install enable**

8. Repair tips

1. The Service Default Mode

The FL is equipped with a service default mode. The service default mode is a fixed, definite state to which the set can be switched.

1.1 Definition state

The definition of the fixed state in the service default mode is as follows:

- all sound and picture controls are in the central position (exception volume which is turned down)
- tuned to 475.25 MHz
- system:
  - * PAL/SECAM BG for Multi Europe
  - * PAL I for UK
  - * SECAM L for Multi French

1.2 Switch on and off

The service default mode is switched on by shorting pins 2S323 and 3S323 on the small signal panel.

The service default mode can only be switched off by switching the set to stand-by. If the set is switched off and then on again using the mains switch or the mains plug, the service default mode will remain on.

If the set switches to stand-by immediately after switching-on, the set cannot be operated and also cannot be switched to the service default mode. The child-proof lock has already been activated.
To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):
<MENU>-<BLUE>-<RED>-<MENU+>-
<MENU OFF>

1.3 Fault signals

To indicate that the set is in the service default mode, the following is displayed on the screen:

SERVICE 00 00 05 06 05

The five numbers after the word "service" stand for the last five fault signals noted by the operator(s). The number on the extreme right represents the last fault signal, that on the extreme left the last fault signal but 4. Since this enables fault reports to be looked at afterward, it means that intermittent faults can be traced.
When the set leaves the service default mode, the fault-report memory is cleared.

1.4 Operation

During the service default mode the set will accept all operating commands. When, however, the set is switched off and on, it will return to the state as defined above.

2. Error messages

● **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

In both FL1 and FL2/4 models the I^2C error messages are indicated by a combination of flashing LED's. In FL1 7 LED's on the front of the set are used. In FL2/4 only 2 LED's have been fitted to the front of the set: 'on' and 'stand-by'; for service purposes the 7 LED's have been fitted inside the set in an SMD version. These are located on the solder side of the panel with buttons for local control. The 2 LED's on the front of the set are connected in parallel with the corresponding service LED's.

Figure 8.1 illustrates the situation for FL1 and FL2/4.
A table of error messages is provided at the end of this chapter.

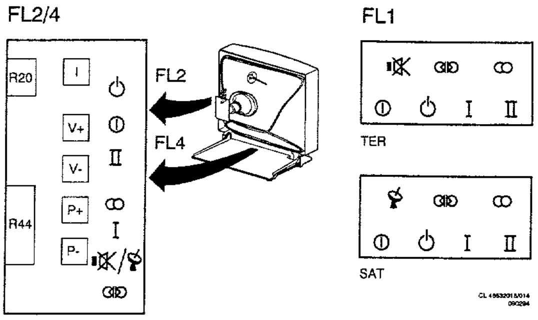


Fig. 8.1

3. Replacement of EEPROM IC7137

If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed.
If the service mode is now activated (see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.
All options have also to be set, the programs installed and the personal preference set.

4. Extension prints

To simplify the measurements ON the various modules extension prints are available for the modules fitted with BTB connectors. Modules can be placed in these connectors so that they stick out above the other prints when the chassis is in the service position.
The code numbers for the extension prints are:

5-fold	4822 395 30261
6-fold	4822 395 30259
8-fold	4822 214 31402
9-fold	4822 395 30258
10-fold	4822 395 30257

5. Removing the PIP module

The PIP module can be simply removed, leaving the set functioning normally (The LED display does however indicate an error condition). Following the removal of the PIP module the signal path is broken. The signal path can be restored by placing the 5-core flat cable with connector S56 in connector foot S16 (see diagram D). The error message can be removed through the application of the option codes (see chapter 7).

6. Extension cables

Extension cables are available to lead the large signal and small signal panel signals (LSP and SSP) separately out of the set. These are made up as follows:

4822 320 20209	Set of 6 cables for LSP and SSP connections.

See chapter 4 also.

7. Central repair

For panels and modules which are difficult to repair there remains a possibility for central repair. Following receipt of a defective module a repaired and tested module is issued.
In order to guarantee the quality of the central repair service a certain amount of information regarding the defective panel is required. This information should be submitted together with the defective panel. This concerns the following information:

1. Clear description of the fault
2. Indication of intermittent or continuous fault
3. Type/version number of the set
4. AG-production code and week/year number
5. Serial number

The defective modules should be complete and free of mechanical damage.
These facilities are offered for the modules below:

LFR box [L]+[M]	4822 212 31233	FL2.2X
LFR box [L]+[M]	4822 212 31313	FL2.24/58
LFR box [L]+[M]	4822 212 31314	FL2.24/62
100Hz box [L']	4822 212 31392	FL4.27

8 Diagnosis and protection

8.1 Hardware and software protection

In case any serious fault occurs in the set, one of the protection circuits will activate. A protection circuit switches of the main power supply (SOPS) via the stand-by input (STBY) of the SOPS control panel. This input is located on pin 1 of connector pin L40 with test point number TP56, and is illustrated on diagram A.
As the microprocessor is fed by a separate stand-by power supply (SOPS), the processor and the LED's will continue to operate, even when the main power supply is switched off.

A number of protection circuits can switch off the power supply independently and immediately (hardware protection). In two protection circuits the microprocessor itself switches off the power supply (software protection).

All protection circuits come together on the stand-by input (TP56 of the main power supply. A diagnosis determines which protection circuit is active.

8.2 Protection test point TP56 [diagram A]

The following voltages may be present on the stand-by input of the SOPS control panel (TP56): [see diagram A]

1	Approx. 17V	during operation;
2	0.5 - 1V	during hardware protection; (this value is maintained by a thyristor circuit formed by TS7380/TS7381);
3	0.5V	during stand-by and software protection.

8.3 Hardware protection:

1 Power supply voltage +13 from the SOPS too high (+V) [diagram A].
This protection circuit activates if the voltage in +13V circuit of the SOPS becomes too high during operation.

2 SOPS and/or +11/-11V for the audio output amplifier defective (SOUND-PROT).
[diagram G]
The protection circuit activates when the +11V and -11V voltages are no longer in balance, or when both voltages are absent. This protection circuit also operates when the SOPS does not function or is short-circuited.
This protection circuit is fed by the start-up voltage 'Vstart' from the SOPS.

3 Beam current too high (I-BEAM) [diagram B]
When the beam current becomes too high this protection circuit switches off the power supply. Before this protection circuit can activate the picture will first illuminate brightly. This fault occurs for example on the absence of the +200V power supply voltage on the picture tube panel.

4 Deviating LOT behaviour (EHT, LOT-PROT) [diagram B].
This protection circuit becomes active when a 'unusual' voltage forms appear on the LOT outputs (5555). This may indicate defective or loose components in the line deflection circuit. (LOT, switching transistors, capacitors).

5 East/west output stage defective [diagram B].
This protection circuit activates when the current through the east/west switching transistor T7610 exceeds a specific value. In this case transistor T7542 will conduct for a brief period.
(the base-emitter voltage Ube from T7542 is then momentary greater than 0.6V).

6 Vertical deflection end stage (IC7450) defective [diagram B].
The frame output stage IC7450 has a protection output (pin 7, TP62). This output becomes momentarily high on any defect in this IC or during the absence of the power supply voltage.
During normal operation there are short pulses on this output.
The frame output stage is fed by a winding on the LOT (5555) (+28V or +32V).
During diagnosis a check should be made whether the +28/+32V power supply voltage continually drops before the protection circuit output is activated. If this is the case then one of the other protection circuits is responsible for switching out the power supply.

By measuring the timing pulses between the protection output (pin 7) and the power supply voltage (pin 6) in relation to earth (pin 2 or 4) it can be determined whether the protection is originating from the frame output stage. The protection circuit overview at the end of this chapter provides a schematic overview of the measurements.

8.4 Software protection

8.4.1 *Error message 99*

Error message 99 is displayed when software protection is generated by the microprocessor. Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an I^2C signal to the microprocessor. The processor then sets the SOPS in stand-by. If this is the case error message 99 is then displayed.
Software protection can be switched out by activating the 'Service Default Mode' (see §1).

If the +13V or +5V are absent as a result of hardware protection switching out the power supply, error message 99 will be displayed by the LED's following a short period, as the microprocessor is no longer receiving any signal from the connected IC's. The processor now bridges the hardware protection via the STBY signal. Each hardware protection will therefore eventually result in software protection, resulting in error message 99 being displayed.

During hardware protection the microprocessor makes repeated attempts to communicate with the connected I^2C-IC's before making a decision for software protection.
During this period (up to approximately 5 minutes) the set will not react to any operational commands. Because none of the I^2C-IC's responds in this period various error messages will be displayed by the LED's. If error message 99 does not eventually appear then the protection circuits are not operational and the cause of the fault can be sought elsewhere.

When the microprocessor generates a STBY signal for implementing software protection TP56 will be made lower than 0.5V by the STBY signal, through which any eventual hardware protection on TP56 will be bridged. In order to determine whether hardware protection is active via TP56 the voltage on TP56 should be measured with the set in the 'Service Default Mode' or measured before error message 99 appears on the LED display.

8.4.2 *Software protection*

7 +5V on the small signal panel (SSP) [diagram B and C]
To test whether the +5V power supply voltage, from the LOT winding (5555) [diagram B], is reaching the small signal panel without short-circuiting, the front-end (1160 [diagram C]) must provide a signal to the microprocessor via IC within a specific time.
If this signal does not arrive, the microprocessor switches the main power supply into stand-by, and the LED's will indicate error message 99 once more.
To test whether the front-end is defective the service default mode will have to be selected. If the power supply voltages on the front-end are correct and a front-end error message persists (error 11), then the front-end is defective.

8 +13V on the small signal panel (SSP) [diagrams A, D and F]).
To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via I^2C to the microprocessor within a specific time. If none of these three IC's provides any signal the microprocessor switches the main power supply into stand-by. The LED's indicate error code 99.

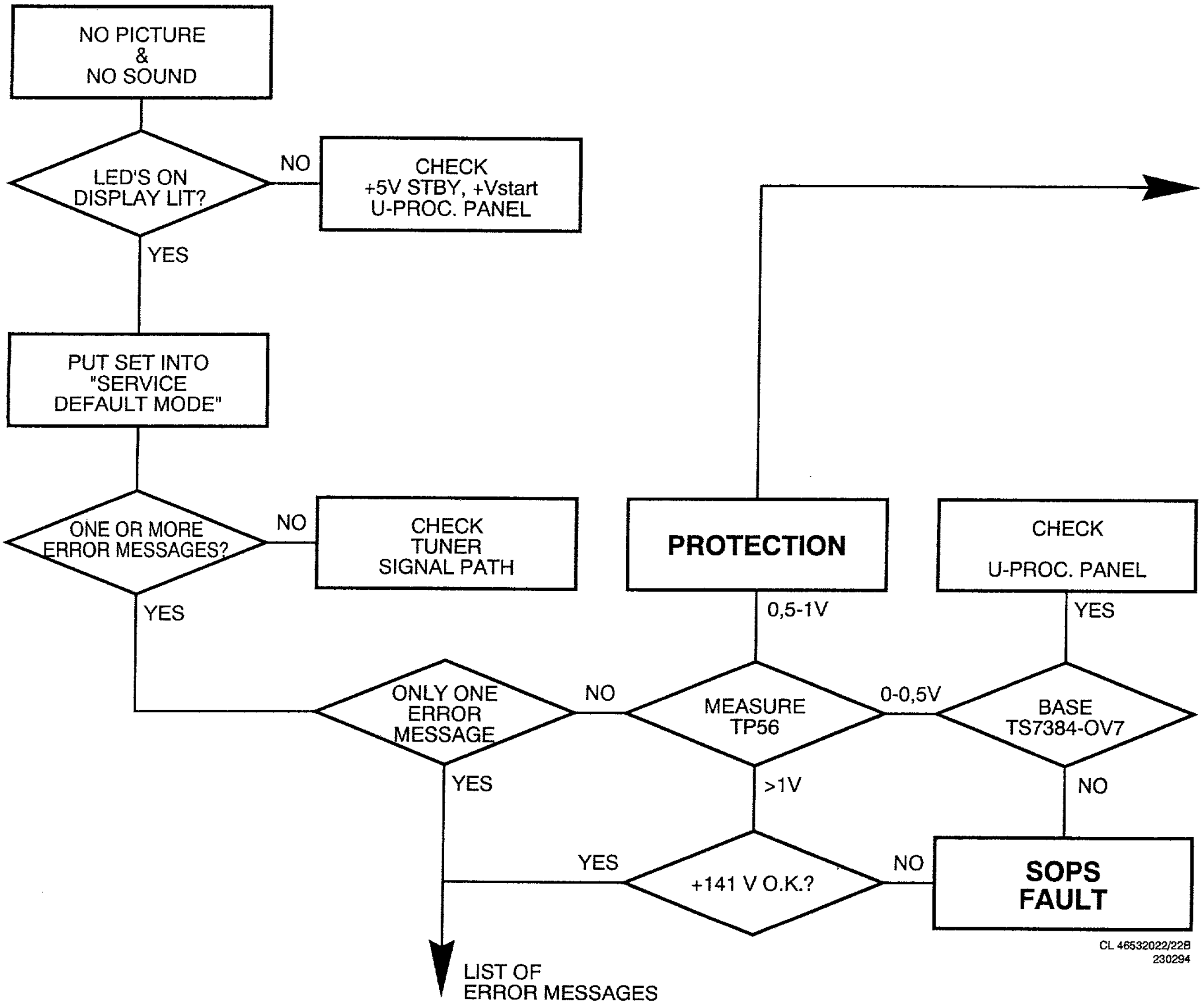
9 SAT box power supply defective (only for set with a SAT box (D2-MAC)).
When the SAT box microprocessor does not send a signal to the main processor in the set, the main processor, following error message 51 (SAT box processor), will switch the software protection in. The LED's now indicate error code 99.
To test whether the SAT box processor is defective the service default mode must be selected. If only the error message from the SAT box is now indicated (error 51), and all power supply voltages on the processor are correct, then the SAT box processor is defective.
The operation of the SAT box power supply [diagram O] can be checked as followed:
Disconnect the SAT box and chassis from one another by disconnecting the band cable between the interface panel [diagram P] and the SAT box [diagram O].
When after a short time the set can be started up from stand-by the SAT box will have an incorrect power supply and error message 99 does not appear.

8.5 Measurements in the protection circuits.

All hardware circuits are illustrated in figure 8.2.
The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.
In this case the signals illustrated are for during:

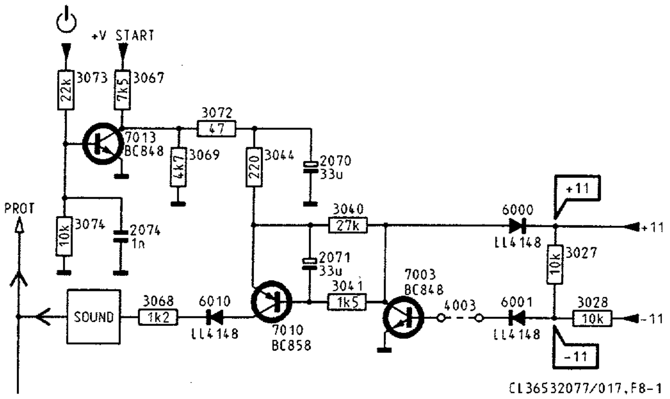
- normal operation
- protection caused by this circuit (PROT);
- protection caused by another protection circuit (N-PROT).

Faultfindingtree

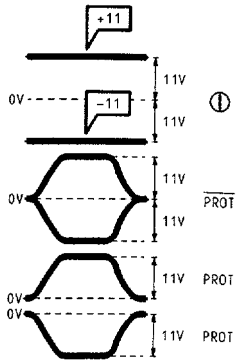

NO PICTURE & NO SOUND
LED'S ON DISPLAY LIT?
NO
CHECK +5V STBY, +Vstart U-PROC. PANEL
YES
PUT SET INTO "SERVICE DEFAULT MODE"
ONE OR MORE ERROR MESSAGES?
NO
CHECK TUNER SIGNAL PATH
YES
ONLY ONE ERROR MESSAGE
NO
YES
PROTECTION
0,5-1V
MEASURE TP56
0-0,5V
>1V
CHECK U-PROC. PANEL
YES
BASE TS7384-OV7
NO
+141 V O.K.?
YES
NO
SOPS FAULT
LIST OF ERROR MESSAGES
CL 46532022/22B
230294

Protection

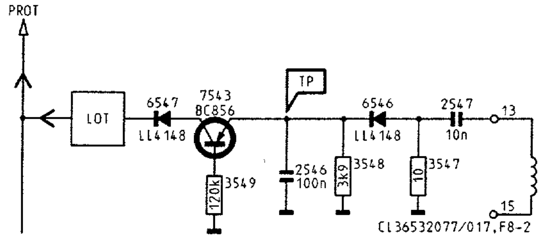
+11 V
-11 V


+V START
3073 22k
3067 7k5
3072 47
7013 BC848
3069 4k7
3044 220
2070 33u
PROT
3074 10k
2074 1n
3040 27k
6000 LL4148
+11
3027 10k
2071 33u
3041 1k5
7003 BC848
SOUND
3068 1k2
6010 LL4148
7010 BC858
4003
6001 LL4148
3028 10k
-11

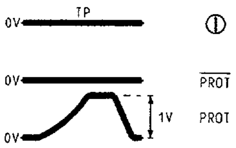
CL36532077/017.F8-1

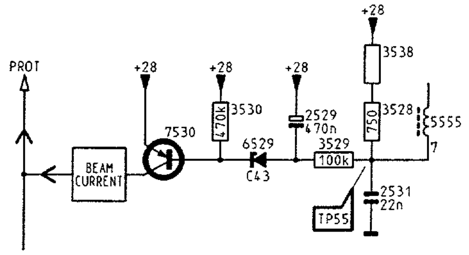

+11
-11
0V
11V
PROT
11V PROT

EHT

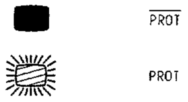

PROT
LOT
6547 LL4148
7543 BC856
3549 120k
TP
2546 100n
6546 LL4148
3548 3k9
2547 10n
3547 10
13
15

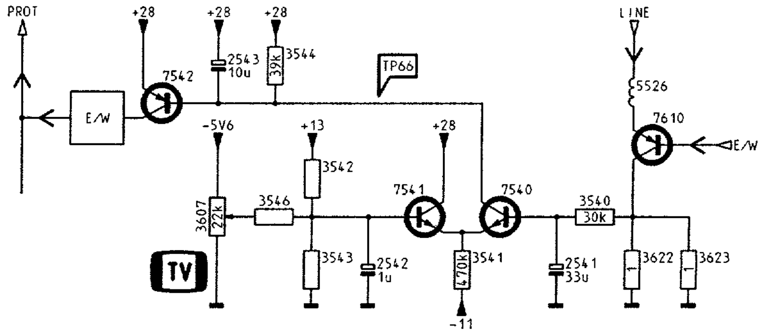
CL36532077/017.F8-2


TP
0V
PROT
1V PROT

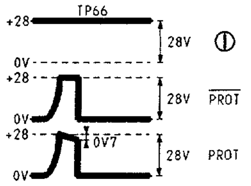

+28
3538
PROT
7530
3530 470k
2529 470n
3528 750
5555
6529 C43
3529 100k
7
BEAM CURRENT
TP55
2531 22n

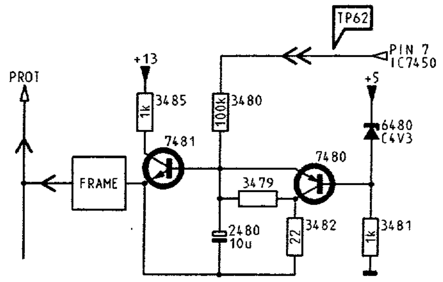
CL36532077/017.F8-3



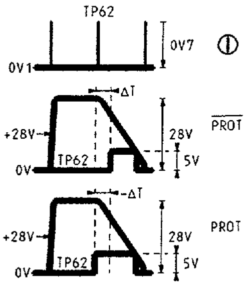

PROT
+28
2543 10u
3544 39k
LINE
TP66
7542
5526
E/W
-5V6
+13
+28
7610
E/W
3542
3607 22k
3546
7541
7540
3540 30k
3543
2542 1u
3541 470k
2541 33u
3622 1
3623 1
-11

CL36532077/017.F8-4

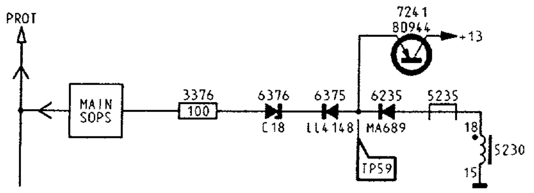

TP66
+28
0V
28V
PROT
0V7
28V PROT


TP62
PIN 7 IC7450
+13
+5
PROT
3485 1k
3480 100k
6480 C4V3
7481
7480
FRAME
3479
2480 10u
3482 22
3481 1k

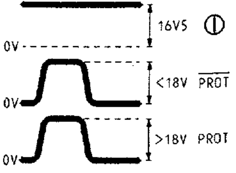
CL36532077/017.F8-5


TP62
0V7
0V1
ΔT
+28V
0V
28V
PROT
TP62
5V
-ΔT
28V PROT

+V


PROT
7241 BD944
+13
MAIN SOPS
3376 100
6376 C18
6375 LL4148
6235 MA689
5235
18
5230
15
TP59

CL36532077/017.F8-6


TP59
16V5
0V
<18V PROT
>18V PROT

CL36532077/017.FREF
130593

Fig. 8.2

NEL

46532022/22B
230294

List of error messages

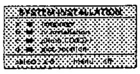
Error number on screen	Flashing LED							Description of error
	📡/🔇	⧉	∞	①	⏻	I	II	
1[1]			X		X	X		I^2C, IC7108, SSP [H] (MSM6307)
3					X	X		I^2C, IC7215, 100Hz SAA 9042 [L] I^2C, IC7111, TXT SAA 9042 [L']
4				X		X		I^2C, IC7220, 100Hz [M] [L'} J83C652
5				X			X	I^2C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I^2C, IC7600, SSP [F] (TDA8417)
7							X	I^2C, IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Y], PCF8574 (16:9)
9			X	X		X		I^2C, IC7430, SSP [D] (TDA4680)
10				X	X		X	I^2C, IC7395, SSP [D] (TDA8443)
11				X	X			I^2C, front-end, SSP [C] (FQ 9XX)
12						X		I^2C, IC7137, SSP [H] (X24C04)
13			X					I^2C, bus on chassis blocked
14			X	X				I^2C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I^2C, IC7219, SSP [C] (TEA6414)
16			X			X		I^2C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, µ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, µ proc. [H]
20				X	X	X	X	7115, SSP, µ proc. [H]
21				X				EAROM X24C08 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I^2C, IC7080, convergence panel [V] (TDA8444) (PTV)
28		X						I^2C, PIP tuner [J]
29		X			X			I^2C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I^2C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I^2C, IC7001, NICAM-panel [K] (SAA7280)
33		X		X				I^2C, PLL (1500) PIP modulo [J]
34[1]	X		X				X	LNC supply on SAT box [Q,R] not correct
35[1]	X		X		X		X	IM-bus on SAT box [Q,S] blocked
36[1]	X		X	X			X	I^2C, bus on SAT box blocked
37[1]	X		X	X	X		X	I^2C, IC7450, D2-MAC [S] (X24C02)
38[1]	X		X			X	X	I^2C, SAT Tuner [Q] (SF914; SF916)
39[1]	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40[1]	X		X	X		X	X	D2-MAC [S]
41[1]	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42[1]	X				X		X	IC7250, TUNER/CONTROL [Q]
43[1]	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q]
44[1]	X			X	X		X	SAT Tuner [Q] (SF914/916)
45[1]	X					X	X	IC7250, TUNER/CONTROL [Q]
46[1]	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47[1]	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48[1]	X			X	X	X	X	D2-MAC [S]
49[1]	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51[1]					X	X	X	IC7250, TUNER/CONTROL [Q]
52[1]			X				X	D2B Bus EXT, SSP [H] blocked.
53			X			X	X	IC7330, MAC TXT [S], TPU2735
55			X	X		X	X	IC7140, Panorama [B], PCF8574 (16:9)
99	X		X		X			Protection

[1] This error is only possible on sets with built in SAT box.

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.** In case an error indication on the set is not included in this table, then check the optional codes (see § 7).

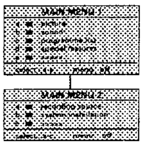
Installation

This part helps you with installing your TV, selecting your menu language, locating and storing your TV channels and composing your favourite list of programme numbers. To do this, follow the directions of the SYSTEM INSTALLATION menu very closely. The installation menu is shown as it will appear on your screen.


SYSTEM INSTALLATION
select a-d menu off

Operation

After you have stored the TV channels, you can call them up on the screen. You can adjust the picture and sound via the main menu. The MAIN MENU is shown here as it will appear on the screen. Feel free to try out all the different possibilities of your TV. Use this part of the handbook to help you doing this.


MAIN MENU 1
picture
sound
programme list
special functions
MAIN MENU 2
recording source
system installation
select menu off

- o This circle in front of a sentence indicates that you have to **do** something.
- ▹ This arrow in front of a sentence indicates the **result** of what you have done.

In the stripe under each menu you are told which keys you can press and how you can switch the menus off again.

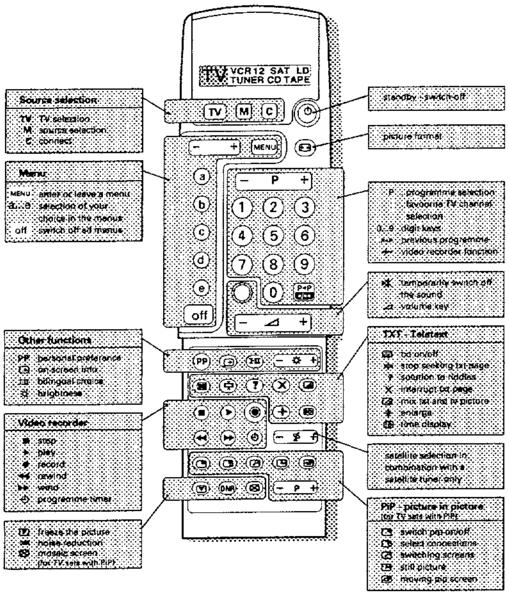
Contents

Installation

Selecting your Menu language
Searching for and Storing TV channels :
- Automatic
- Manual

Operation

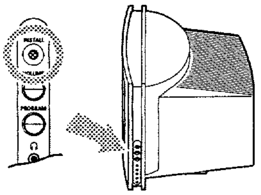
Operation
Main Menu
Other Functions
Pip Picture in Picture
Teletext
Peripheral Equipment
Tips


TV VCR 12 SAT LD TUNER CD TAPE
Source selection
TV TV selection
M source selection
C connect
Menu
MENU enter or leave a menu
a...e selection of your choice in the menus
off switch off all menus
Other functions
PP personal preference
on-screen info
bilingual choice
brightness
Video recorder
stop
play
record
rewind
wind
programme timer
freeze the picture
noise reduction
mosaic screen (for TV sets with PiP)
standby - switch off
picture format
P programme selection favourite TV channel selection
0...9 digit keys
previous programme
video recorder function
temporarily switch off the sound
volume key
TXT - Teletext
txt on/off
stop seeking txt page
solution to riddles
interrupt txt page
mix txt and tv picture
enlarge
time display
satellite selection in combination with a satellite tuner only
PiP - picture in picture (for TV sets with PiP)
switch pip on/off
select connections
switching screens
still picture
moving pip screen

Selecting your menu language

You can choose **for yourself** the language of the menus - the instructions and the various possible choices - which you call up on your screen.

- o Press the INSTALL key on the right side of your TV set.


INSTALL
VOLUME
PROGRAM

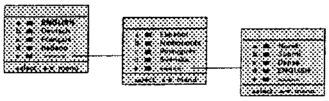
If the message CHILD LOCK ON appears, the child lock should be switched off. See Special Features.

- ▹ The SYSTEM INSTALLATION menu appears on the screen.

SYSTEM INSTALLATION
a language
b tv installation
c choice CD/CD-I
d pict. rotation
select a-d menu off

It is also possible to enter the installation menu via the main menu. See Main Menu.

- o Press the red key a on the remote control.
- ▹ The language menu appears on the screen.


ENGLISH
Deutsch
Français
Italiano
>>>>>
Español
Nederlands
Português
Svenska
Norsk
Suomi
Dansk
ENGLISH
select menu

- o Press the colour key of your language choice.
- o Press the corresponding colour key for >>>>> if the language you want does not appear on the first language menu.

> LANGUAGE STORED appears for a moment at the top of the menu. The language menu disappears and the SYSTEM INSTALLATION menu appears again.

Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.
This can be done in two different ways : automatically or manually.

Automatic installation................................ **or**

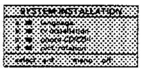
All TV channels are searched for and stored automatically. The programme numbers are filled in the programme list.
If desired you can modify the allocation of the channel numbers of one or more stored TV channels afterwards and delete or insert TV channels.

Manual installation..

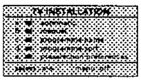
The manual installation is characterised by the possibility to select the way of searching with frequencies.
You yourself must assign a number of your choice to the TV channel located.

Follow very closely and step by step the instructions of the Manual Installation procedure.
You must go through every step.

- o Press the green key b in the SYSTEM INSTALLATION menu.
- ▹ The TV INSTALLATION menu appears.


SYSTEM INSTALLATION
a language
b tv installation
c choice CD/CD-I
d pict. rotation
select a-d menu off

Automatic installation


TV INSTALLATION
a automatic
b manual
c programme name
d programme sort
e preselection preferences
select a-e menu off

- o Press the red key a.
- ▹ AUTOMATIC lights up.
- o Press MENU + to select YES.
- ▹ SEARCHING, PLEASE WAIT appears and the TV is searching all the channels you can receive.

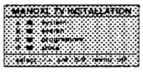
The automatic installation can be interrupted by pressing the MENU or OFF key.

- ▹ Every time a channel is found it is automatically stored in the memory under the next programme number in the programme list.
- ▹ When all channels are found the message TV INSTALLATION COMPLETED is displayed briefly on top of the menu.
  The programme list is automatically filled with all the programme numbers of the TV channels transmitted.
  The programme list is displayed without programme names.
  Now you yourself must assign a name to the TV channels located.

> The menu TV INSTALLATION appears again.

Manual TV installation

- o Press the green key b in the menu TV INSTALLATION.
- ▹ The menu MANUAL TV INSTALLATION appears.


MANUAL TV INSTALLATION
a system
b search
c programme
d store
select menu off

step a Selecting the TV system

The television picture is not broadcast in the same way in all countries.
We speak of different television systems (PAL, SECAM, NTSC, ...).
Now you must select the TV system **yourself**.

- o Press the red key a.
- ▹ The SELECTING THE SYSTEM menu appears....... **or**

1 You have your own aerial.
- o Press the colour key of the country or part of the world from where you want to select the TV channel.
- ▹ The MANUAL TV INSTALLATION menu now appears.
- ▹ Your selection lights up.

2 You are connected to the cable system.
- o Press the colour key of the country or part of the world where you now are located.
- ▹ The MANUAL TV INSTALLATION menu now appears.
- ▹ Your selection lights up.

Go on to step **b**.

ONLY ONE SYSTEM AVAILABLE appears ....

You have a set that can receive only one system.
You do not need to make any selection.

Go on to step **b**.

If you have pressed the wrong key, then repeat step **a**.

step b Searching for a TV channel

- o Press the green key b.
- ▹ SEARCHING appears and the TV is searching for a channel.
- ▹ The frequency increases until a channel is found.

Go to step **c** if you want to store the channel that has been found.

- o Press ⊞ under the door of the remote control to recognise which programme is being broadcast.
- ▹ The MANUAL TV INSTALLATION menu disappears temporarily.

Do you want a different channel or is the reception poor?

- o Press the green key b again.

Is the reception still poor? See Tips.

Fine-tuning :

You may be able to improve the reception of picture and sound of a TV channel. Adjust the frequency yourself with the MENU - or + key on the remote control.

Direct selection of a TV channel :

If you know the frequency of a TV channel, you can enter it directly with the digit keys on the remote control and in this way call up the TV channel.
Ask for a list of the frequencies at your cable company or at your dealer.

- o Enter the 5 digits of the desired frequency.
- o For frequencies under 100 MHz, first enter a 0. For example : 063.25.

Have you entered a wrong number?
First complete the frequency with arbitrary numbers and then start again.

Go on to step c.

step c Entering the programme number

Now you must assign a number of your choice to the TV channel located. In this way you decide for yourself the order of all your TV channels.
With the assigned programme number you can call up your TV channel again later.

- o Press the yellow key c.
- ▹ Hold down the **P** - or + key or use the digit keys on the remote control until the desired programme number appears in the menu.

Go on to step **d**.

step d Storing steps a to c

Now the TV system, the located TV channel and its programme number must be stored in the memory.

- o Press the blue key d.
- ▹ PROGRAMME STORED appears briefly at the top of the menu.
- ▹ The TV channel is stored in the memory.

repeat Do you want to store another TV channel?

- ○ Repeat steps a to d.

Are you connected to the cable system?

- ○ Begin immediately with step b. You have already selected the TV system in step a for all channels.

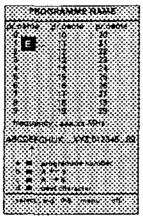
out Have you finished locating TV channels?

- ○ Press MENU.
- ▹ The TV INSTALLATION menu appears again.

Entering or modifying a programme name

Now you yourself must assign a name to the TV channels located. A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1, ...

- ○ Press the yellow key c.
- ▹ The PROGRAMME NAME menu and the programme list appear. Also the frequency of the current TV channel is displayed.
- ○ Press ⊞ under the door of the remote control to recognise which programme is being broadcast.
- ▹ The menu PROGRAMME NAME disappears temporarily.
- ○ Press the red key a.
- ○ *Select the* TV channel of which you want to change the name or to which you want to assign a name with the digit keys or with **P** - or +. External sources can not be selected with **P** - or +.



In the list you can now modify or enter the name of the TV channel. With the arrow under the letter and number line you select which letter or number in the list above you wish to enter. In the list there is a red or white block next to the chosen programme number.

- ○ Hold as desired, either the green key b down to move the arrow to the left, or else the yellow key c to move the arrow to the right.
- ▹ The letter or number that you indicate with the arrow appears in the block.
- ○ Press the blue key d.
- ▹ The block moves over one space. Now you can choose a following letter or number with the arrow.
- ○ Place the arrow between Z and 0 for a space.

Did you fill in a wrong letter or number?
Press repeatedly on the blue key d until the block is back in the place where you want to make a change.
Now choose with the arrow the correct letter or number.

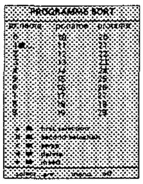
Are the complete names filled in?

- ○ Press MENU.
- ▹ The TV INSTALLATION menu appears again.

Modifying the programme list

According to your preference you can modify the programme list of the stored TV channels by swapping, deleting or inserting certain TV channels.

- ○ Press the blue key d.
- ▹ The PROGRAMME SORT menu appears.



a. swap

With the swap-function you can modify the allocation of the stored TV channels.

- ○ Press the red key a.
- ▹ FIRST SELECTION lights up.
- ○ Select the programme number of the TV channel of which you want to modify the programme number with the digit keys or with **P** - or +.
- ○ Press the green key b.
- ▹ SECOND SELECTION lights up.
- ○ Select the programme number of the TV channel which you want to swap with the programme number selected in your first selection.
- ○ Press the yellow key c.
- ▹ PROGRAMMES SWAPPED appears briefly at the top of the menu.
- ▹ The TV channels and their names selected in the first and the second selection are swapped.
- ○ Repeat this for all the other TV channels you want to replace.

b. delete

With the delete-function you can remove the TV channels you do not like to have in the programme list anymore.

- ○ Select, with the digit keys or with **P** - or +, the programme number you want to delete.
- ○ Press the blue key d.
- ▹ DELETE lights up and the programme number and name of the TV channel to be deleted starts flickering in the FIRST or SECOND SELECTION line.
- ○ Press MENU + to select YES.
- ▹ DELETING PROGRAMME appears briefly at the top of the menu.
- ▹ The selected TV channel is deleted, its place is taken by the next programme and the subsequent programme numbers are shifted up one place.
- ○ Repeat this for all the other TV channels you want to delete.

c. insert

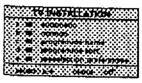
You can add a TV channel at the place you like in the programme list with the insert-function of the programme sort menu.

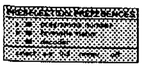
- ○ Press the red key a.
- ▹ FIRST SELECTION lights up.
- ○ Select, with the digit keys or with **P** - or +, the programme number where you want to create an empty place to insert a new TV channel.
- ○ Press the white key e.
- ▹ INSERT lights up.
- ○ Press MENU + to select YES.
- ▹ INSERTING PROGRAMME appears briefly at the top of the menu.
- ▹ All the programmes starting from the one indicated in the programme list are shifted one place downwards. The programme number of the empty place appears in red. You can now insert a new TV channel with the MANUAL TV INSTALLATION method. See earlier.

Are all the TV channels allocated as you like ?

- ▹ Press MENU.
- ▹ The TV INSTALLATION menu appears again.

Preselection preferences





All the stored TV channels have been automatically placed into the programme list. In the PRESELECTION PREFERENCES menu you yourself should indicate for each stored TV channel if you want to keep that programme number as a favourite.
You can do this also for a programme number you want to reserve for the programmes you receive from your decoder.
This will make selecting your favourite TV channels a lot easier and faster.
When you run quickly through the TV channels by holding the **P** - or + key pressed down, only those TV channels which are in the favourite list will be displayed.
When you select a TV channel with the digit keys, the indication of the selected TV channel will be displayed in white characters when it is a TV channel from the favourite list, in red characters when it is a TV channel which is not in the favourite list.

a Favourite TV channels

- ○ Press the white key e in the TV INSTALLATION menu.
- ▹ The PRESELECTION PREFERENCES menu appears.
- ○ Press the red key a.
- ▹ PROGRAMME NUMBER lights up.
- ○ Select the programme number of a TV channel with **P** - or + or with the digit keys.
- ○ *Press the green key b.*
- ▹ FAVOURITE STATUS lights up.
- ○ Press MENU - or + to select NO or YES. In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
- ○ Repeat this for each programme number.

b Decoder

In case you have connected a decoder, see Decoders, you can define one or more programme numbers as a decoder preselection.

- ○ Press the red key a in the PRESELECTION PREFERENCES menu.
- ▹ PROGRAMME NUMBER lights up.
- ○ Select the programme number under which you want to store the programme coming from your decoder with **P** - or + or with the digit keys.
- ○ Press the yellow key c.
- ▹ DECODER lights up.
- ○ Press MENU - or + repeatedly until the designation EXT1 or EXT2 appears according to the euroconnector to which you connected your decoder. This is not possible with a decoder connected to EXT3. Select NO if you do not want the selected programme number being activated as a decoder preselection.
- ○ Press MENU twice.
- ▹ The SYSTEM INSTALLATION menu appears again.

Photo CD/CD-I

In case you have connected a photo Compact Disc or a Compact Disc Interactive see Peripheral Equipment.

- ○ Press the yellow key c in the SYSTEM INSTALLATION menu.
- ▹ PHOTO CD/CD-I lights up.
- ○ Press MENU + to select YES.
- ▹ This offers you an optimum picture quality for your Photo CD or CD-I.

Picture rotation

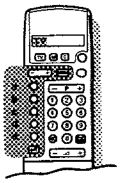
- ○ *Press the blue key d in the SYSTEM INSTALLATION menu.*
- ▹ PICT. ROTATION lights up.
- ○ Press MENU - or + repeatedly to adjust the rotation of the picture.
- ○ Press **off** to exit the SYSTEM INSTALLATION menu.

Operation

Standby

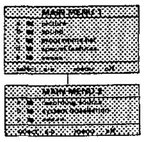
- ○ *With the standby key ⏻ at the top of the remote control you can* temporarily switch the TV off.
- ▹ The red lamp on the TV lights up.
- ○ Press the C-key or a digit key in order to turn the TV on again. If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby. Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise you to switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which supports good picture quality.

Main Menu



You use the keys in the grey area of the drawing to operate the main menu.

With the colour keys a-b-c-d-e you select your choice in the menus.

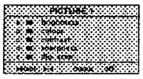


The main menu is split into 2 menus and you can:
. adjust **picture** and **sound** according to personal preference
. call up a **programme list** with an overview of the TV channels stored
. select from among various **special features**
. select **recording sources** for your video recorder
. enter the **system installation** menu.

- ○ Press MENU.
- ▹ The MAIN MENU 1 appears.
- ○ Press **off** to switch off each menu.

Adjusting the picture

- ○ Press MENU.
- ○ Press the corresponding colour key for PICTURE.
- ▷ The PICTURE 1 menu appears



- ○ Press one of the colour keys to select the adjustment you want to regulate.
  When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, also the option **tint** appears in the PICTURE 2 menu.
- ▷ The selected adjustment lights up.
- ○ Press MENU - or + in order to regulate the selected adjustment.
- ○ Press a colour key once more in order to select another adjustment.

Do you want to store the changed adjustment in the memory ?

- ○ See Special Features, PP store.

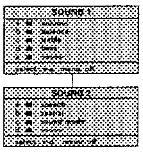
Digital scan (Line Flicker Reduction)
In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.

- ○ Press the corresponding colour key for DIG. SCAN.
- ○ Press MENU - in order to switch off the line flicker reduction.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

Adjusting the sound

- ○ Press MENU.
- ○ Press the corresponding colour key for SOUND.
- ▷ The SOUND 1 menu appears.



Volume, balance, treble, bass

- ○ Press one of the colour keys to select the adjustment you want to regulate.
- ▷ The selected adjustment lights up.
- ○ Press MENU - or + in order to regulate the selected adjustment.
- ○ Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears.
- ○ See Special Features, PP store, .

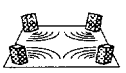
Speech

- ○ Press the white key e in the SOUND 1 menu.
- ▷ The SOUND 2 menu appears.
- ○ Press the corresponding colour key for SPEECH.
- ▷ SPEECH lights up.
- ○ Press MENU + to reveal the treble and to suppress the bass.
- ○ Press MENU - to switch off.

Spatial and surround sound

- ○ Press the corresponding colour key for SPATIAL in the SOUND 2 menu.
- ▷ SPATIAL lights up.
- ○ Press MENU - or + to switch off or on.
- ▷ When SPATIAL ON is selected, it seems as though the loudspeakers are spread further apart from one another. You get a spatial sound effect.

You achieve a Surround Sound effect if you have **2** or for a maximum effect **4** extra loudspeakers connected. See Peripherals.
In case of 2 extra loudspeakers, always connect them to REAR at the back of your TV.
In case of 4 extra loudspeakers,connect them to FRONT and REAR.



- ○ Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ○ Place the loudspeakers in the corners of an imaginary square.

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT and REAR.

- ○ Select SPATIAL ON.
- ▷ You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.

- ○ Select SPATIAL ON.
- ▷ You get a spatial stereo effect.

Sound mode

- ○ Press the corresponding colour key for SOUND MODE in the SOUND 2 menu.
- ▷ SOUND MODE lights up.
- ▷ If the TV channel which you are now watching transmits stereo or digital sound and if your set is equipped with Nicam, you can choose between :
  . **stereo** or **mono** if the TV channel transmits *stereo* sound
  . **digital** or **analogue** if the TV channel transmits *digital* sound.
- ○ Select **analogue** or **mono** in case of weak digital or stereo sound signals.
- ○ Press MENU - or +.

If you do not make a sound choice for the TV channel which you are watching your TV will choose between stereo or digital sound, depending on the sound the TV channel transmits.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

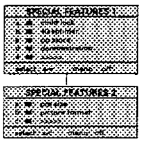
Programme list

- ○ Press the corresponding colour key for PROGRAMME LIST in MAIN MENU 1.
- ▷ A list with an overview of the first 30 stored TV channels appears.
  TV channels from the favourite list are displayed in white characters.
  TV channels which are not in the favourite list are displayed in red characters.
- ○ Press MENU - or + to run through the other pages (to 99) of the programme list.
- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

- ○ Press **off**.
- ▷ The MAIN MENU disappears.

Special features

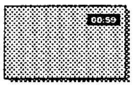
- ○ Press MENU.
- ○ Press the corresponding colour key for SPECIAL FEATURES.
- ▷ The SPECIAL FEATURES 1 menu appears.



- ○ Press a colour key in order to choose between child lock, sleeptimer, pp store, demonstration, pip size (for sets with the Picture in Picture option) or picture format.
- ▷ Your choice lights up.
- ○ Press once more on a colour key to make another choice.

Child lock
If the child lock is on, the TV can only be switched on with the digit keys on the remote control. The keys on the TV cannot be used.
If the message CHILD LOCK ON appears, the child lock should be switched off.

- ○ Press the corresponding colour key for CHILD LOCK.
- ○ Press MENU - or + to switch the child lock off or on.



Sleeptimer
With the aid of the sleeptimer you can set the time when the TV should switch itself off.

- ○ Press the corresponding colour key for SLEEPTIMER.
- ○ Hold the key MENU + pressed down.
- ▷ The counter runs from **off** up to **90** minutes.
- ○ Hold the key MENU - pressed down.
- ▷ The counter runs from **90** down to **off**.
  If you have set a time, then one minute before the TV switches off the remaining minute automatically appears on the screen.
  You can always switch off your set earlier or change the time set.

PP store
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the **PP** key.

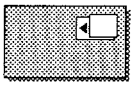
- ○ Press the corresponding colour key for PP STORE.
- ▷ PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu.
  At this point all previous adjustments are cancelled.
  See also Other functions.

Demonstration
This function demonstrates one after another all the possible options of your TV.

- ○ Press the corresponding colour key for DEMONSTRATION.
- ○ Press MENU + to switch the demonstration on.
- ○ Press **off** in order to stop the demonstration.

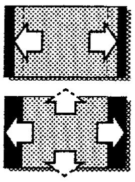
Pip size
You can select either a large or a small pip format.

- ○ Press the corresponding colour key for PIP SIZE in the SPECIAL FEATURES 2 menu.
- ○ Press MENU - or +.
  For more information about Pip, see Pip, Picture in Picture.



Picture format
A programme in the conventional picture format can be expanded so that you can take full advantage of your wide screen.

- ○ Press the corresponding colour key for PICTURE FORMAT.
- ○ Press MENU - or + repeatedly to select NORMAL, PANORAMA or EXPAND in order to choose between a conventional, a panoramic or a full expanded picture format.



Recording Source

If you want to record a programme, then first read Peripherals, Recording.

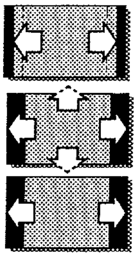
System Installation

You can also enter the System Installation menu via the Main Menu 2 to select your menu language and to locate and to store your TV channels.

Other functions

Picture format

- ○ Press ⊡ repeatedly to select
  . or a conventional picture format
  . or a panoramic picture format
  . or a full expanded picture format
  . or a wide screen picture format.
- ▷ The information PANORAMA appears briefly on the screen if a panoramic picture format has been selected.
- ▷ The information MOVIE EXPAND appears briefly on the screen if a full expanded picture format has been selected.
- ○ Keep MENU + pressed to move the full expanded picture upwards so that the subtitles, if there are, become visible at the bottom.
- ○ Keep MENU - pressed to move the full expanded picture downwards again.
- ▷ The information WIDE SCREEN appears briefly on the screen if a wide screen picture format has been selected.



Making subtitles visible from pictures from VCR1, VCR2 or SAT in the MOVIE EXPAND picture format

- ○ Press the TV key on the remote control.
- ○ Keep MENU + or - pressed to move the picture upwards or downwards again.
- ○ Press the M again until the designation **VCR1**, **VCR2** or **SAT** appears in a grey block.
- ▷ Now you can operate your video recorder 1 or 2 or satellite tuner again with the remote control of the TV.

Previous programme

- ○ Press the P◂P key.
- ▷ The previous selected TV channel is displayed again.
  The ⟛ indication has a video recorder function.

Selecting satellites

The keys 𝄪 - and + are only functional when having connected a satellite tuner in combination with a satellite positioner and an automatically rotatable polarmount antenna to select satellites.

PP key

With the green **PP**-key you can call up again the picture and sound adjustments which have been stored with the **PP store** in the Special Features menu.

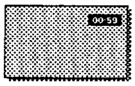
- ○ Open the door of the remote control.
- ○ Press **PP**.

Information on screen

After the selection of a TV channel the following information appears briefly on your screen :
. the programme number and name of the selected TV channel
. the actually selected sound mode if the TV-channel transmits stereo or digital sound
. SOUND MUTED when the sound is temporarily interrupted
. the name of the pip connection if pip is switched on.
See Pip-Picture in Picture.
. DUAL I or II in case of bilingual broadcast.

SOUND MUTED

- ○ Open the door of the remote control.
- ○ Press ⊞ **short.**
- ▷ The channel information appears on the screen for a few seconds.
- ▷ If the sleeptimer is on, then the remaining time becomes visible.



Permanent programme number

- ○ Open the door of the remote control.
- ○ Press ⊞ **long.**
- ▷ The channel information appears on the screen for a few seconds and the permanent programme number remains in the upper right hand corner of the screen when it was off, or disappears when it was on.

Bilingual Broadcast

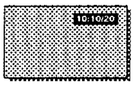
If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, you can make your choice.

- ○ Open the door of the remote control.
- ○ Press key I-II and select language I or II.
- ▷ DUAL I or II appears for a moment on top of the screen.
  The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.

Time

The time can only be called up if the TV channel you are watching is also broadcasting teletext.
Teletext does not need to be switched on.

- ○ Open the door of the remote control.
- ○ Press ⊞.
- ▷ The time appears in the upper right hand corner of the screen.
- ○ Press ⊞ again in order to switch off.



Freezing the picture

When watching you can freeze the picture at any moment.

- ○ Press ▼.
- ○ Press ▼ again to return to normal picture.

DNR

With DNR, Dynamic Noise Reduction, you can reduce the noise when receiving a weak signal and so improve the picture quality.

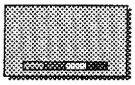
- ○ Press the DNR key repeatedly to select DNR MIN, DNR MED, DNR MAX or DNR OFF.
- ▷ Your selection appears for a moment on top of the screen.
  DNR MED offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength.
  DNR MAX is **not** necessary when the picture quality is good.

The setting is stored in the memory only for the selected TV channel after you have switched to another TV channel.

Mosaic screen

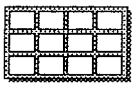
With the mosaic screen, you can scan the TV channels stored in the favourite list, display successive frozen pictures with the photo finish function and reproduce the main picture image by image with the strobe function.

- ○ Press ⊠.
- ▷ A menu line appears on the bottom line of the screen. It contains four functions, each having another background colour, corresponding to the menu colour keys.
- ○ Press the corresponding colour key to activate one of the 4 functions.



Scan

- ○ Press the red key a.
- ▷ A scan of the stored TV channels is performed, starting with programme number 0.
  Only TV channels placed in the favourite list or programmes from switched on peripherals are displayed. On the last position, bottom right, a live picture is shown of the programme that was displayed before the mosaic screen was switched on.
- ○ Press the red key a again.
- ▷ A following series of stored TV channels from the favourite list or programmes from switched on peripherals is scanned.
  Each mosaic-picture will contain its belonging programme number.
- ○ Select a TV channel with the digit keys.
- ▷ The mosaic screen disappears and the selected TV programme will be displayed.
- ○ Press the blue key d to interrupt the scan function and to switch off the mosaic screen.



Never perform a scan while recording a TV programme with a video recorder connected to EXTERNAL 1, 2 *or* 3 *and when having selected an option in the Recording Source menu since the scan will be recorded on tape.*

Photo finish

- ○ Press the green key b.
- ▷ The main picture is displayed in successive frozen pictures.
  The last picture on the bottom right will remain live.
- ○ Press the green key b again.
- ▷ A new photo finish picture is displayed, overwriting the old one.
- ○ Press the blue key d to switch off the photo finish function and to switch off the mosaic screen.
- ▷ The programme that was selected before the mosaic screen was switched on, appears again.

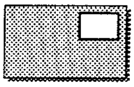
Strobe

- ○ Press the yellow key c.
- ▷ The picture is reproduced image by image. So you get an interrupted movement.
- ○ Press the yellow key c again.
- ▷ The picture is reproduced image by image in a faster way.
- ○ Press the yellow key c once again.
- ▷ The strobe function is switched off.
- ○ Press the blue key d to switch off the mosaic screen.

Pip - Picture in Picture

Switching pip on and off

- ○ Open the door of the remote control.
- ○ Press ⊡.
- ▷ The pip screen appears and the image is the same as in the main screen.
- ▷ The name of the pip programme appears briefly on the main screen.
- ○ Press ⊡ again to switch pip off.

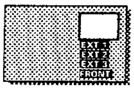


Selecting pip programmes

- ○ Press - P + of the pip keys in order to change the TV channels in the pip screen.

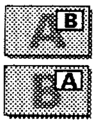
Selecting pip connections

- ○ Press ⊡ repeatedly.
- ▷ The name of the connections appear.
  If any other electronic unit is connected with a eurocable and switched on, its programmes appear in the pip screen.
  Use - P + of the pip keys in order to change the TV channel in the pip screen.
  For connecting equipment to EXTERNAL 1, EXTERNAL 2, EXTERNAL 3, FRONT, see Peripheral Equipment.



Switching screens

- ○ Press ⊡.
- ▷ The main screen and the pip screen exchange places.
  If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

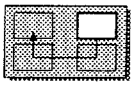


Still Picture

- ○ Press ⊡.
- ▷ The picture in the pip screen stands still.
  Even when pip is not switched on, the main screen will appear as a still picture in the pip screen.
- ○ Press ⊡ again or select another channel in the pip screen in order to cancel the still picture.

Moving the Pip screen

- ○ Press ⊡.
- ▷ Each time you press this key, the pip screen moves to another corner of the main screen.

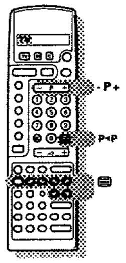


If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.

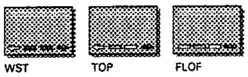
Pip Size

You can select either a large or a small pip screen.
See Main Menu : Special Features.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing. Depending on the TV channel, teletext is transmitted in different systems: WST, TOP, FLOF. The system utilised is indicated in the options line at the bottom of the screen.



Switching Teletext On and Off

- ○ Select the TV channel for the desired teletext broadcast.
  Teletext cannot be switched on when there is a menu on the screen.
- ○ Open the door of the remote control.
- ○ Press ⊟ in order to switch on the teletext.
- ▷ The contents appear on the screen together with two information lines at the top and an options line at the bottom.

When a selected teletext page contains several subpages, the subpage numbers which are automatically stored in the memory appear in the first information line. The coloured number indicates the displayed subpage. The white numbers refer to the subpages which can be selected with MENU - or +.

In the following information line appears:
. the name of the TV channel selected
. the page counter
. date and time.

- ○ Press ⊟ again in order to switch off the teletext.
- ▷ The TV channel reappears.

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Easy Teletext system

The major advantages of this new teletext system are :

A considerable **reduced waiting time** by predicting what the user will probably select and which results in :

. a fast and direct selection of previous and following pages which are in transmission
. the precapturing of the pagenumbers read from the displayed page
. the direct selection of the last 2 page numbers selected with the digit keys
. the precapturing of the pages referred to in the options line
. the creation of a **habit watcher list** : not predictable pages, being selected by the user, are put in a list of preferred pages so that they are immediately available afterwards. The pages are stored in the memory when switching off teletext or when switching to standby.

The precapturing of up to **9 subpages** to be controlled by the teletext user.

Selecting a Teletext Page

With the digit keys .... or

○ Enter the desired page number with the digit keys.
▷ The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
▷ A message appears when you have entered a not existing or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
○ Enter the correct page number.

With the options line ....

○ Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext the selected TV channel transmits,
- the previous <= or the following => pages
- the previous selected pages
- another subject

Quickly run through the teletext pages

○ Press **P** - to run through the previous pages.
○ Press **P+** to run through the following pages.

Selecting the previous teletext page

○ Press the P◂P key.
▷ The previous selected teletext page is displayed again.

Selecting subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpage numbers appear in white as soon as the transmission has found them.

○ Press MENU - to select the previous subpage.
○ Press MENU + to select the following subpage.

Selecting the index teletext page

○ Press the white colour key e.
▷ The index, usually p. 100, appears.

Special teletext functions

○ Open the door of the remote control.

Hold

You can stop the page counter from seeking when you have entered a wrong page number or when the page is not available.

○ Press ⇳.
▷ ≡⇳ appears in the first information line.
The page counter stops seeking the entered page number.
○ Enter another page number.
▷ ≡⇳ disappears.

Reveal

Some pages contain concealed information, such as solutions to riddles and puzzles.

○ Press ? to call up concealed information.
○ Press ? again in order to switch off the concealed information.

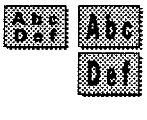
Interrupt

○ Press X.
▷ The TV programme appears.
▷ ▤ at the top of the screen indicates that you are still in the teletext mode.
Before interrupting teletext, you can select a page number.
When the page has been found, the page number appears on your screen.
○ Press X again.
▷ Teletext reappears.

Mix

○ Press ◪.
▷ The teletext page and the TV programme appear on the screen at the same time.
○ Press ◪ again.
▷ Only the teletext page is displayed.

Enlarge



○ Press ✚ to enlarge the top half of the teletext page.
○ Press ✚ again to enlarge the bottom half of the teletext page.
○ Press once more to return to normal page size.

Subpage

By adding a subcode you can call up a desired subpage.

○ Enter the page number.
○ Press ▣.
○ Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
○ Press ▣ in order to cancel the subcode.

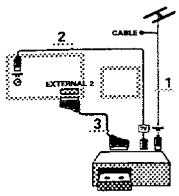
Subtitles and newsflashes

○ Select the contents page (usually page 100).
○ Select the page number for subtitles or newsflashes.
▷ Subtitles or newsflashes, if there are, appear at the bottom of the TV programme.

Peripheral Equipment

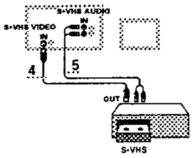
There is a wide range of electronic equipment that can be connected to your TV.
The following connection diagrams show you where the different equipment should be connected at the back or the right side of the TV.

TV and video recorder



○ Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect a eurocable **3** additionally.

S-VHS video recorder



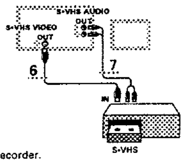
○ Do you have a S-VHS video recorder with S-VHS connectors, then connect as well as the aerial cables **1** and **2**

the S-VHS cables **4** and **5**

and the S-VHS cables **6** and **7**.

Do not connect an additional eurocable.

OR



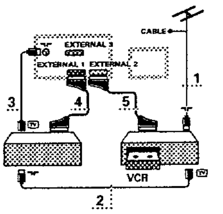
○ Do you have a S-VHS video recorder with a S-VHS euroconnector, then connect as well as the aerial cables 1 and 2, the S-VHS eurocable **3**.

Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector.
The euroconnector has no function.

Searching for and storing the testsignal of the video recorder

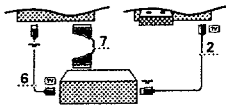
○ Unplug the aerial cable of the aerial socket ℸ⊏ of your video recorder.
○ Switch on your TV and put the video recorder on the testsignal.
(See the handbook for your video recorder.)
○ Press the INSTALL key at the right side of your TV, or enter the System Installation menu via the main menu.
▷ The SYSTEM INSTALLATION menu appears.
○ Search for the testsignal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels.
Store the testsignal either under programme number 0 or between 50 and 99.
○ Insert the aerial plug again into the aerial socket ℸ⊏ of your video recorder after you have stored the testsignal.

TV, video recorder 1 and one or more peripherals



○ Connect the aerial cables 1, 2 and 3 as shown alongside. A better picture quality is obtained if you connect the eurocable **4** to EXTERNAL 1 or 3 and the eurocable **5** to EXTERNAL 2 additionally.

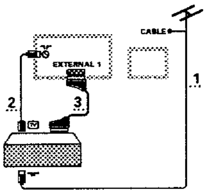
○ Look for the test signal of your peripheral in the same way as you do for a video recorder.



When having more peripherals, you can also connect them to each other with an extra aerial cable **6** and an additional eurocable **7** to obtain a better picture quality.

Only with a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Recording with your video recorder.

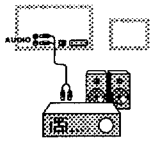
TV and laser disc or satellite tuner or Photo CD/CD-I equipment



○ Connect the aerial cables 1 and 2 as shown alongside.
A better picture quality is obtained if you connect the eurocable 3 additionally.
See also Installation, Photo CD/CD-I, if you connect a Photo CD/CD-I equipment.

Look for the test signal of your equipment in the same way as you do for a video recorder.

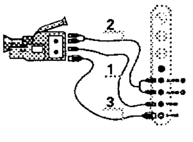
Audio equipment



You can listen to your TV sound via your audio equipment.

○ Therefore connect the audio cables to the audio input of your equipment and to AUDIO L and R at the back of your TV.
○ Press ✱ on the remote control.
▷ The loudspeakers of your TV are switched off.

Camera and camcorder

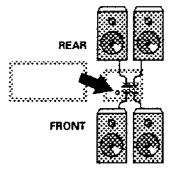


○ Connect your camera or camcorder to FRONT at the right side of your TV.
○ Connect the equipment to VIDEO 1 and AUDIO L 2 for mono equipment.
○ In the SOUND menu select mono sound. See Main Menu, Adjusting the sound, Sound mode.
○ Connect also AUDIO R 2 for stereo equipment.
○ In the SOUND menu select stereo sound.
S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the S-VHS input 3 and AUDIO inputs 2.

Extra loudspeakers

To achieve a better sound effect you can connect 2 of 4 extra loudspeakers, min. 8 Ohm.
See also Spatial and Surround sound.

- ○ Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the FRONT and REAR loudspeakers.



In case of 2 extra loudspeakers:

- ○ Connect them to FRONT .... **or**
- ○ Press the loudspeaker switch on the back of the TV out.
- ▹ The internal loudspeakers of your TV are now switched off.
- ▹ You achieve a better front sound effect.

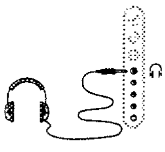
- ○ Connect them to REAR.
- ▹ You achieve a surround sound effect.
  A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to REAR and 12 m wire can be purchased from your dealer.
  Do never connect the loudspeakers from these kit to FRONT.

In case of 4 extra loudspeakers :

- ○ Connect them to FRONT and REAR.
- ○ Press the loudspeaker switch on the back of the TV out.
- ▹ The internal loudspeakers of your TV are now switched off.

Headphone

- ○ Insert the plug into the headphone socket 🎧 at the right side of the TV.
- ○ Press 🔇 on the remote control.
- ○ Adjust the volume with ◿ - or +.
- ▹ The internal loudspeakers of your TV are switched off.
  The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

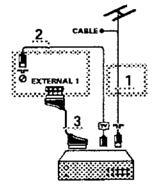


Decoders

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connecting a decoder with an aerial socket to the TV

- ○ Connect the aerial cables **1** and **2** as shown alongside.
  When your decoder has a euroconnector you obtain a better picture quality if you connect a eurocable **3** additionally to EXTERNAL 1.



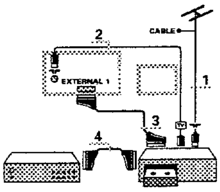
Connecting a decoder without an aerial socket to the TV

- ○ Connect the decoder with your TV with a eurocable **3** only.

Connecting the decoder to the video recorder

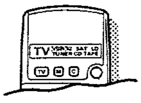
Some video recorders have a special euroconnector for decoder.

- ○ Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder.
  See also the handbook of your video recorder.
- ○ To connect your video recorder to the TV, see before.



If you want to connect more equipment to your TV, consult your dealer.

Reproducing Picture and Sound



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.
Then press M on the remote control repeatedly until the designation **VCR1, VCR2, SAT, LD, TUNER, CD** or **TAPE** appears in a grey block, according to the equipment.
To operate your TV again, first press the **TV** key and enter the programme number of the TV channel you want to watch with the digit keys.

a. from equipment connected only with an **aerial cable**

- ○ Switch your TV on.
- ○ With the digit keys select the programme number under which you have stored the test signal.
- ○ Switch on your equipment.
- ▹ The picture and/or sound is reproduced.

Do you want to watch TV again ?

- ○ Enter the programme number of the TV channel which you want to watch with the digit keys.

b. from equipment connected with a **eurocable**

- ○ Switch your TV on.
- ○ Switch your equipment on.
- ▹ Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :

- ○ Press **C** repeatedly until the designation EXT1, EXT2, EXT 3 or FRONT appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
- ▹ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?

- ○ Press **C** repeatedly again until the picture and/or the sound from the TV channels is reproduced.

c. from a S-VHS recorder connected with **S-VHS cables**

- ○ Switch your TV on.
- ○ Press **C** repeatedly until the indication EXT2 appears on the screen.
- ○ Switch your S-VHS recorder on.
- ▹ The picture stored in your video recorder from a pre-recorded cassette or from a TV channel is reproduced.

d. from equipment connected to the **right side** of the TV

- ○ Switch your TV on.
- ○ Press **C** repeatedly until the indication FRONT appears on the screen.
- ○ Switch your equipment on.
- ▹ The picture is reproduced.
  Do you want to watch the TV picture again ?
- ○ Enter the programme number of the TV channel which you want to watch with the digit keys.

Recording with your video recorder

1. Recording a TV programme

only using an **aerial** cable

- ○ Select the programme number on your video recorder.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 2

- ○ Select the programme number on the TV.
- ○ Press MENU.
- ○ Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▹ RECORDING SOURCE appears.
- ○ Press the red key a.
- ▹ TV TO EXT 2 is displayed.
- ○ Press off.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 1

- ○ Select the programme number on the TV.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

2. Recording a programme from equipment connected to EXTERNAL 2, EXTERNAL 3 or FRONT

RECORDING SOURCE
TV to EXT 2
menu off

- ○ Switch on the equipment.
- ○ Press MENU.
- ○ Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▹ RECORDING SOURCE appears.
- ○ With the colour keys select the connection from which you want to record.
- ▹ Your selection lights up.
- ○ Press **off**.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

Tips

Poor Picture

Have you selected the correct TV system ?
Is your TV set or house aerial located too close to loudspeakers,non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture unrecognisable ? Check if you have entered the correct frequency or adjust the frequency by fine tuning. See Installation.
Are brightness and contrast out of adjustment ? Press the **PP** key.
Switch off your TV overnight with ⏻ on the left side of the TV.

No picture

Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible secondly installed TV in good condition ? If in doubt, consult your dealer.
NO PICTURE means that the selected peripheral equipment is transmitting no picture.
Did you press the correct keys on the remote control ? Try it once more.
Did you press ▤ again after switching on teletext ?
Has the child lock been switched off ? See Special Features.

Sound

Did you perhaps interrupt the sound with the 🔇 key ?
Were the internal loudspeakers perhaps switched off by the switch on the back of your TV set ? See Extra loudspeakers.
Is the sound coming out of only one loudspeaker ? Was the balance perhaps set to one extreme ? See SOUND menu.
Select SPATIAL ON in the Sound menu if there is no sound coming out of the extra loudspeakers in back. See Spatial and Surround Sound.

Remote control

Does your TV no longer respond to the remote control ? Check whether the indication TV appears in a grey block.
Perhaps the batteries are empty.

Menu

Did you select the wrong menu ? Once more press MENU or **off** to exit from the menu.

Connections

Check whether your peripheral equipment is in fact properly connected.
Have you switched on the peripheral equipment ?

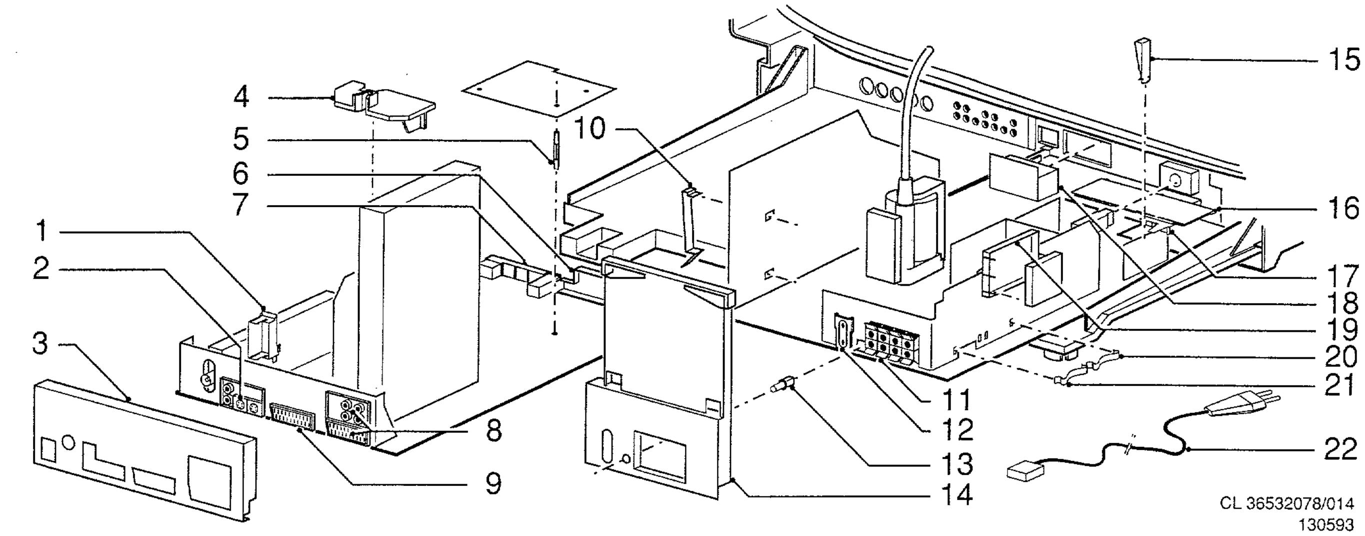
No solution ?

Switch your TV set off and then on again.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician when nothing helps.

Ohjeita laitteen käytöstä poistamiseksi

Laitteessa käytettyjä materiaaleja voidaan kierrättää ja käyttää uudelleen, jos purkamisen hoitaa tähän erikoistunut liike.
Suosittelemme noudatettavaksi vanhojen laitteiden kierrätyksestä annettuja paikallisia ohjeita.

10. Exploded view & Mechanical parts list



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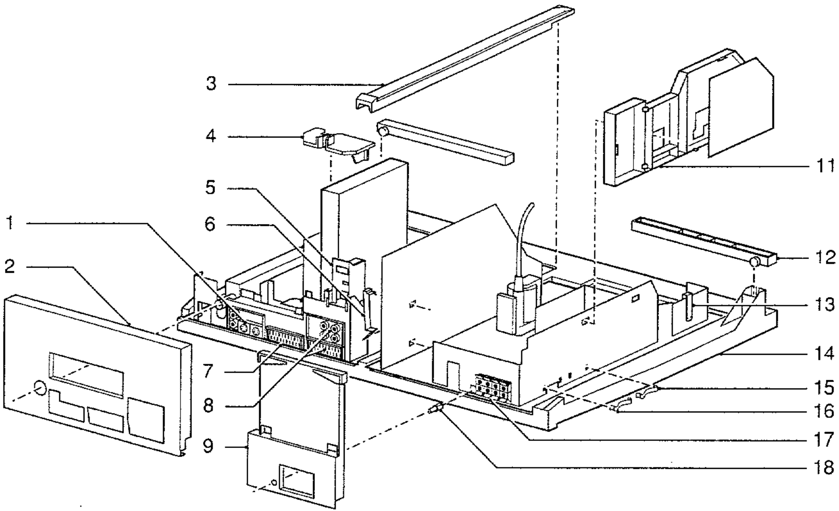
130593

Mechanical FL1

1	4822 256 91807	Holder for splitter
2	4822 267 41005	Cinch/2 x SVHS connector
2	4822 267 20409	Cinch/1 x SVHS connector
3	4822 432 93132	SSP cover
3	4822 432 92767	SSP cover -/39
3	4822 432 93138	SSP cover FL1.17
4	4822 404 31196	Bracket second tuner PIP
5	4822 404 31197	Spacer
6	4822 218 21084	Keyboard
7	4822 267 41004	Headph./cinch/SVHS connector
7	4822 267 20408	Headph./cinch
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x cinch connector
9	4822 267 51058	Euroconnector
10	4822 492 70789	Spring
11	4822 290 60812	Connector for LS
12	4822 267 20417	Socket for LS
13	4822 410 25036	Mute knob
14	4822 432 92743	LSP cover Sq, Cl
14	4822 432 92991	LSP cover FL1.17
15	4822 492 62067	Spring
16	4822 466 93027	Protection plate
17	4822 404 31167	Bracket for mains cord
18	4822 466 93002	LED block
18	4822 130 91183	LED block FL1.17
19	4822 404 31202	Bracket for DAF panel
20	4822 492 70143	Spring
21	4822 492 70788	Spring
22	4822 321 10736	Mains cord



CL 36532078/015
130593

Mechanical FL2/4.XX

	4822 267 41005	Cinch/2 x SVHS connector FL2
	4822 267 20409	Cinch/1 x SVHS connector FL4
	4822 466 93211	SSP cover FL2
	4822 466 93231	SSP cover FL4
	4822 417 50287	Bracket
	4822 404 31196	Bracket for second tuner PIP
	4822 256 91807	Holder for splitter
	4822 492 70789	Spring
	4822 267 51058	Euroconnector
	4822 267 20427	Euro/4 x cinch connector
	4822 267 20411	Euro/2 x cinch connector FL2
	4822 267 20457	Euro/2 x cinch connector FL4
	4822 432 92839	LSP cover FL2.24 Cl, Ex
	4822 432 92695	LSP cover FL2.26 Cl
	4822 432 92991	LSP cover FL4
1	4822 464 70616	Bracket for mains filter FL2.24
1	4822 464 70638	Bracket for mains filter FL2.26/FL4
2	4822 462 42016	Service stand
13	4822 492 62076	Spring
14	4822 464 70615	Frame for chassis FL2
14	4822 464 70639	Frame for chassis FL4
15	4822 492 70143	Spring
16	4822 492 70788	Spring
17	4822 290 60812	Connector for LS
18	4822 410 25036	Mute knob
	4822 404 31344	bracket 3th scart panel

Spa

Large
FLx.24

	482
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Various

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1010	482
1026	482

⊣⊢

2001	482
2002	482
2003	482
2007	482
2008	482
2009	482
2010	532
2011	482
2012	482
2013	482
2014	532
2015▲	482
2016▲	482
2018	482
2019	482
2020	482
2021	482
2022	482
2023	532
2024	532
2025	4822
2026	4822
2027	4822
2028	4822
2029	4822
2030	4822
2031	4822
2032	4822
2033	4822
2034▲	4822
2035	4822
2036	4822
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2058	4822

Spare parts list / Stükliste / Liste des pièces

Large signal panel FLx.24 [A] [B] [G]

	4822 265 30525	2P male white
	4822 265 20541	2P male black
	4822 265 31099	6P female blue
	4822 267 51334	10P female blue
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 265 40442	10P male
	4822 265 20509	2P male
	4822 267 41146	6P male black
	4822 267 40985	6P male eco
	4822 264 40207	3P male
	4822 267 41018	2P male red
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 31098	6P male blue
	4822 265 41367	10P male blue
▲	4822 265 30389	2P male
	4822 267 41142	3P male eco
	4822 267 30871	2P female
	4822 266 20163	2P female black

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic.P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
	4822 290 60812	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 310 31932	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 11105	Focus cable
	4822 320 20213	Vg2 cable
1010	4822 212 23892	NTSC ASSY
1026	4822 102 90038	DAF unit 32"

⊣⊢

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034▲	4822 122 32442	10nF 50V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 122 31765	100pF 2% 63V
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2052	4822 124 42362	33µF 20% 16V
2053	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 32142	270pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2240	4822 124 42183	1000µF 20% 63V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80507	330µF 20%
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2330	4822 122 31784	4,7nF 10% 50V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402▲	4822 124 40246	4,7µF 20% 63V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	5322 122 31647	1nF 10% 63V
2408	4822 122 31172	180pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412▲	4822 122 31173	220pF 10% 500V
2413	4822 122 31768	180pF 2% 63V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	5322 122 31647	1nF 10% 63V
2452	4822 124 41716	220µF 20% 35V
2453	4822 122 33496	100nF 10% 63V
2455	4822 122 31746	1nF 2% 63V
2456	4822 124 80457	3300µF 20% 35V
2457	4822 124 42249	1µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 33496	100nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 23495	10µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11823	270pF 10% 500V
2504	4822 126 13152	820pF 10% 3kV
2504	4822 126 13157	2,2nF 10% 3kV
2507	4822 121 42408	220nF 5% 63V
2509	4822 122 31174	2,7nF 10% 500V
2510	4822 126 12083	1nF 10% 500
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40248	10µF 20% 63V
2513	4822 124 40248	10µF 20% 63V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2521▲	4822 121 43397	680nF 5% 250V
2522▲	4822 121 43397	680nF 5% 250V
2523▲	4822 122 33382	9,1nF 5% 2kV
2523	4822 121 70435	10nF 5% 2kV
2524	4822 121 70005	15nF 5% 630V
2524	4822 121 70397	12nF 5% 630V
2525	4822 124 80604	47µF 20% 50V
2526	4822 126 11502	470pF 10% 500V
2527	4822 121 70005	15nF 5% 630V
2529	4822 124 23491	0,47µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 12761	1.5nF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 12761	1.5nF 10% 500V
2537	4822 124 80037	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2544▲	4822 124 41525	100µF 20% 25V
2545	4822 126 12941	10pF 10% 100V
2546	4822 126 11725	1µF 20% 5V
2547	4822 122 32566	3,9nF 10% 63V
2548	4822 126 11725	1µF 20% 5V
2551	4822 124 40195	150µF 20% 16V
2600▲	4822 124 40246	4,7µF 20% 63V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2606	4822 122 32542	47nF 10% 63V
2606	4822 122 32541	27nF 10% 63V
2609	4822 121 51243	56nF 5% 50V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 80603	4,7µF 20% 50V
2612	4822 124 80603	4,7µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2615	4822 122 33498	2,7nF 10% 63V
2801	4822 122 32153	1,8nF 10% 63V
2805	4822 124 40248	10µF 20% 63V
2806	4822 122 31797	22nF 10% 63V

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3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52299	7k5 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069	4822 051 10622	6k2 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 051 10223	22k 2% 0,25W
3074▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 053 21825	8M2 5% 0,5W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3235▲	4822 052 10108	1Ω 5% 0,33W
3238	4822 116 52268	300k 5% 0,5W
3238	4822 116 52234	100k 5% 0,5W
3239	4822 116 52268	300k 5% 0,5W
3239	4822 116 52234	100k 5% 0,5W
3240	4822 116 52268	300k 5% 0,5W
3240	4822 116 52234	100k 5% 0,5W
3241	4822 113 80635	3,3Ω 10% 5W
3242	4822 051 10122	1k2 2% 0,25W
3243	4822 116 52226	560Ω 5% 0,5W
3244	4822 051 10151	150Ω 2% 0,25W
3245	4822 116 52226	560Ω 5% 0,5W
3247	4822 051 52202	2k2 1% 0,125W
3248	4822 051 52202	2k2 1% 0,125W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52201	75Ω 5% 0,5W
3251	4822 051 10102	1k 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3255	4822 116 52243	1k5 5% 0,5W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W
3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10751	750Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3373	4822 051 10153	15k 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3387	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52265	270k 5% 0,5W
3410	4822 100 11731	150k 30% lin
3411	4822 051 10204	200k 2% 0,25W
3412	4822 116 52284	47k 5% 0,5W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 52264	27k 5% 0,5W
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10279	27Ω 5% 0,33W
3421	4822 051 10272	2k7 2% 0,25W
3422	4822 101 21195	470k 30% lin
3424	4822 051 10201	200Ω 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3428	4822 051 10333	33k 2% 0,25W
3429	4822 116 52205	1k1 5% 0,5W
3430	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52205	1k1 5% 0,5W
3439	4822 051 10754	750k 2% 0,25W
3440	4822 051 10163	16k 2% 0,25W
3441	4822 116 52293	6k2 5% 0,5W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10223	22k 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3448	4822 116 52233	10k 5% 0,5W
3450	4822 051 10562	5k6 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3453	4822 116 52211	150Ω 5% 0,5W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10154	150k 2% 0,25W

Spare parts list / Stükliste / Liste des pièces

Ω 5% 0,5W
1% 0,125W
1% 0,125W
k 5% 0,5W
Ω 5% 0,5W
Ω% 0,25W
k 5% 0,5W
10%
5% 0,5W

Ω 2% 0,25W
Ω 2% 0,25W
10% 5W
5% 0,25W
5% 1W
Ω 1% 0,125W
2% 0,25W
Ω 5% 0,5W
5% 1W
2% 0,25W

2% 0,25W
2% 0,25W
Ω 5% 3W
2% 0,25W
5% 0,5W
Ω 2% 0,25W
Ω 2% 0,25W
5% 0,5W
Ω 5% 0,5W
2% 0,25W

Ω 2% 0,25W
Ω 2% 0,25W
Ω 2% 0,25W
5% 0,5W
5% 0,5W
5% 0,5W
Ω 2% 0,25W
1% 0,6W
5% 0,5W
1% 0,6W

2% 0,25W
Ω 2% 0,25W
Ω 2% 0,25W
Ω 2% 0,25W
Ω 2% 0,25W
Ω 5% 1W
2% 0,25W
0% lin
Ω 2% 0,25W
2% 0,25W

5% 0,5W
2% 0,25W
Ω 5% 0,5W
Ω 2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W

2% 0,25W
2% 0,25W
2% 0,25W
30% lin
Ω 2% 0,25W
2% 0,25W
5% 0,5W
30% lin
2% 0,25W
5% 0,5W

2% 0,25W
30% lin
5% 0,5W
5% 0,5W
Ω 2% 0,25W
5% 0,33W
2% 0,25W
30% lin
Ω 2% 0,25W
Ω 2% 0,25W

2% 0,25W
5% 0,5W
Ω 5% 0,5W
5% 0,5W
2% 0,25W
% 0,25W
% 0,5W
% 0,25W
% 0,25W
% 0,25W

5% 0,5W
% 0,25W
% 0,25W
5% 0,33W
5% 0,5W
2% 0,25W
2% 0,25W

3457	4822 051 10912	9k1 2% 0,25W
3458▲	4822 116 80676	1Ω5 5% 0,5W
3459▲	4822 116 80676	1Ω5 5% 0,5W
3460▲	4822 053 11331	330Ω 5% 2W
3460▲	4822 053 11271	270Ω 5% 2W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3464▲	4822 053 10102	1k 5% 1W
3465	4822 051 10681	680Ω 2% 0,25W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12331	330Ω 5% 3W
3473	4822 051 10152	1k5 2% 0,25W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3484	4822 051 10224	220k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 116 52274	36k 5% 0,5W
3502	4822 116 52306	9k1 5% 0,5W
3503	4822 116 52306	9k1 5% 0,5W
3504	4822 116 52176	10Ω 5% 0,5W
3505	4822 116 52229	750Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3507	4822 116 52184	18Ω 5% 0,5W
3508▲	4822 116 60523	2k2
3508	4822 116 82773	1k8 10% 5W
3509	4822 053 20104	100k 5% 0,25W
3511▲	4822 052 10128	1Ω2 5% 0,33W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3520▲	4822 052 11102	1k 5% 0,5W
3521▲	4822 052 11102	1k 5% 0,5W
3522	4822 117 10285	6,8Ω 5% 3W
3523	4822 116 52244	15k 5% 0,5W
3524	4822 116 52176	10Ω 5% 0,5W
3525	4822 116 52207	1k2 5% 0,5W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52207	1k2 5% 0,5W
3529	4822 051 10204	200k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3531	4822 116 52274	36k 5% 0,5W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 10128	1Ω2 5% 0,33W
3535▲	4822 052 10128	1Ω2 5% 0,33W
3536▲	4822 053 10331	330Ω 5% 1W
3538	4822 050 21303	13k 1% 0,6W
3539▲	4822 052 10108	1Ω 5% 0,33W
3540	4822 116 52267	30k 5% 0,5W
3541▲	4822 116 52272	330k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 20222	2k2 5% 0,1W
3543	4822 051 10332	3k3 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3546	4822 051 10104	100k 2% 0,25W
3547	4822 051 10109	10Ω 2% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10132	1k3 2% 0,25W
3551	4822 051 10151	150Ω 2% 0,25W
3552	4822 116 52207	1k2 5% 0,5W
3553	4822 116 52207	1k2 5% 0,5W
3555	4822 113 80592	150Ω 10% 5W
3556	4822 053 11108	1Ω 5% 2W
3558	4822 051 10109	10Ω 2% 0,25W
3559	4822 051 10392	3k9 2% 0,25W
3560	4822 113 80586	6Ω8 10% 5W
3561	4822 051 58201	820Ω 1% 0,125W
3562	4822 051 52202	2k2 1% 0,125W
3563	4822 116 52175	100Ω 5% 0,5W
3564	4822 051 10569	56Ω 2% 0,25W
3570	4822 051 10272	2k7 2% 0,25W
3573	4822 116 52244	15k 5% 0,5W
3601	4822 051 10104	100k 2% 0,25W
3602	4822 100 11213	22k 30% lin
3603	4822 051 10163	16k 2% 0,25W
3603	4822 051 10123	12k 2% 0,25W
3604	4822 051 10514	510k 2% 0,25W
3605▲	4822 051 10103	10k 2% 0,25W
3606	4822 051 20183	18k 5% 0,1W
3607	4822 100 11213	22k 30%lin 0,1W
3608▲	4822 051 10103	10k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610▲	4822 051 10472	4k7 2% 0,25W
3611▲	4822 116 52256	2k2 5% 0,5W
3612	4822 116 52233	10k 5% 0,5W
3613	4822 051 10202	2k 2% 0,25W
3614	4822 116 52249	1k8 5% 0,5W
3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10683	68k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10682	6k8 2% 0,25W
3621	4822 051 10114	110k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3623	4822 116 80176	1Ω 5% 0,5W
3626	4822 130 40938	BC548
3627	4822 051 10202	2k 2% 0,25W
3628	4822 051 10473	47k 2% 0,25W
3629	4822 051 10474	470k 2% 0,25W
3630▲	4822 051 10103	10k 2% 0,25W
3631	4822 116 52297	68k 5% 0,5W
3632	4822 051 10134	130k 2% 0,25W
3633	4822 051 10271	270Ω 2% 0,25W
3634	4822 051 10473	47k 2% 0,25W
3650	4822 051 20183	18k 5% 0,1W
3651	4822 051 10102	1k 2% 0,25W
3652	4822 051 10822	8k2 2% 0,25W
3653	4822 051 10104	100k 2% 0,25W
3653	4822 051 20183	18k 5% 0,1W
3654	4822 051 20222	2k2 5% 0,1W
3655	4822 051 20222	2k2 5% 0,1W
3656▲	4822 051 10103	10k 2% 0,25W
3800	4822 116 52289	5k6 5% 0,5W
3801	4822 051 10184	180k 2% 0,25W
3802	4822 051 10104	100k 2% 0,25W
3803	4822 051 20222	2k2 5% 0,1W
3804▲	4822 051 10103	10k 2% 0,25W
3805▲	4822 111 41424	22Ω 5% 0,3W
3806	4822 051 20222	2k2 5% 0,1W
3807▲	4822 116 52256	2k2 5% 0,5W
3809	4822 051 10104	100k 2% 0,25W
3810	4822 116 52176	10Ω 5% 0,5W
3811▲	4822 116 52215	220Ω 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W
9459▲	4822 116 52215	220Ω 5% 0,5W
9625	4822 053 20106	10M 5% 0,25W

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5230▲	4822 148 81192	SOPS transf.
5237	4822 526 10494	Ferrite bead
5241	4822 157 62412	27μH 10%
5255▲	4822 148 81225	μSOPS transf.
5260	4822 526 10494	Ferrite bead
5308	4822 157 70001	180μH 10%
5310	4822 157 63301	1μH 15%
5381▲	4822 157 52265	100μH 10%
5503▲	4822 157 63252	Line driver
5505	4822 157 51588	0,82μH 20%
5506	4822 157 51588	0,82μH 20%
5507	4822 157 63506	0,09μH
5510	4822 157 62886	33μH 10%
5511	4822 157 52407	39μH 7,5%
5520	4822 157 63846	linearity corr. 28"
5520▲	4822 156 50091	linearity corr. 32"
5521	4822 157 70871	Bridge coil 28"
5521	4822 157 70869	Bridge coil 32"
5524	4822 526 10494	Ferrite bead
5525	4822 157 52392	27μH 10%
5526▲	4822 157 63513	E/W coil
5527	4822 157 70472	0,56μH 20%
5534	4822 158 10551	27μH 7,5%
5543	4822 157 62412	27μH 10%
5555	4822 140 10476	L.O.T. 28"
5555▲	4822 140 10432	L.O.T. 32"

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6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6017	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
6235	4822 130 81104	MA689
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6246	4822 130 83576	BZV55-B6V8
6251	4822 130 81512	BZV55-C6V2
6260	4822 130 80446	BAS32L
6262	4822 130 83121	BYD73C
6266	4822 130 34278	BZX79-F6V8
6272▲	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	5322 130 34898	BZD23-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 82345	LLZ-C22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 80922	LLZ-C18
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6422	4822 130 80446	LL4148
6440▲	4822 130 30621	1N4148
6441	4822 130 80446	LL4148
6451▲	4822 130 61219	BZX79-C10
6452	4822 130 42488	BYD33D
6480	4822 130 31554	BZX79-C4V3
6506▲	5322 130 32184	BYV27-50
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6534	4822 130 82512	BYV29F-400
6536	4822 130 82758	BYV29F-300
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 83004	BZX79-A3V9
6570	4822 130 80922	LLZ-C18
6611	4822 130 81027	LLZ-C11
6633	4822 130 81512	LLZ-C6V2
6650	4822 130 82583	LLZ-C9V1
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148
6651	4822 130 80446	LL4148
6801	4822 130 80446	LL4148
6802	5322 130 34337	BAV99
6803	4822 130 80446	LL4148
6804	4822 130 80446	LL4148
6811	4822 130 34281	BZX79-B15

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7000	4822 209 73311	TDA1521Q/N4
7000	4822 130 63427	BD534FI
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63366	ON4802
7242	4822 130 40948	BC548A
7243	4822 130 40948	BC548A
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 63426	BD533FI
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	4822 130 42513	BC858C
7369	5322 130 42755	BC847C
7370	5322 130 42136	BC848C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7417	4822 130 42513	BC858C
7443	4822 130 61207	BC848
7444	4822 130 61207	BC848
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858A
7469	4822 130 44283	BC636
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7506	4822 130 62843	2SC4288A
7512▲	4822 130 41344	BC337-40
7513	4822 130 41327	BC327-40
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63427	BD534FI
7551	4822 130 62846	ON4590
7552	4822 130 62846	ON4590
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 62845	BDT60F
7616	5322 130 42136	BC848C
7618	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7800	5322 209 10576	4053B
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848

Large signal panel FLx.26/.27 [A] [B] [G]

	4822 266 30359	6P female
	4822 265 41328	10P female
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 264 40207	3P male
	4822 267 41142	3P
	4822 267 41146	6P
	4822 267 41018	2P red
▲	4822 265 30389	2P male
▲	4822 265 40596	2P male
	4822 265 20509	2P male grey
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 30953	6P male
	4822 265 41326	10P male
	4822 265 30984	5P female

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
▲	4822 276 12998	Mains switch
▲	4822 256 30496	Fuse holder
	4822 290 61196	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 267 20417	Socket for squeeters
	4822 310 31993	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 20191	Focus cable
1010	4822 212 30195	NTSC panel
1200▲	4822 070 33151	Fuse 3,15A

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2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V

Spare parts list / Stükliste / Liste des pièces

2004	4822 122 32142	270pF 2% 63V
2005	4822 122 32142	270pF 2% 63V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 31775	680pF 2% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 11966	100pF 10% 500V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034	4822 122 32862	10nF 80% 50V
2035	4822 122 31775	680pF 2% 63V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 051 10008	0Ω 5% 0,25W
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 051 10008	0Ω 5% 0,25W
2049	4822 122 31965	220pF 2% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051▲	4822 124 40433	47µF 20% 25V
2052▲	4822 124 40433	47µF 20% 25V
2053▲	4822 124 40433	47µF 20% 25V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 31773	560pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2075	4822 122 31797	22nF 10% 63V
2076	4822 122 31797	22nF 10% 63V
2077	4822 122 31797	22nF 10% 63V
2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V
2210▲	4822 126 11141	2,2nF 10% 1kV
2211▲	4822 126 11141	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2230	4822 122 32856	8,2nF 10% 63V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 80215	1000µF 20% 35V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2241	5322 124 41431	22µF 20% 35V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2256	5322 122 31647	1nF 10% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	4822 124 40255	100µF 20% 63V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80605	330µF 20% 50V
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V

2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	5322 124 41378	33µF 20% 35V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 31759	18nF
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	4822 122 32153	1,8nF 10% 63V
2408	4822 126 11823	270pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412	4822 126 11966	100pF 10% 500V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	4822 122 31746	1nF 2% 63V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31746	1nF 2% 63V
2455	4822 122 31771	390pF 2% 63V
2456	4822 124 41184	470µF 20% 50V
2456	4822 124 41747	680µF 20% 35V
2456	5322 124 41468	1000µF 20% 40V
2457	4822 124 42249	1µF 10% 50V
2457	4822 124 42251	1,5µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 80214	22µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11157	470pF 10% 500V
2504	4822 122 20054	270pF 10% 2kV
2504▲	4822 126 12239	560pF 10% 2kV
2505	4822 122 20054	270pF 10% 2kV
2505▲	4822 126 11254	330pF 10% 2kV
2505▲	4822 126 12269	680pF 10% 2kV
2507	4822 121 42408	220nF 5% 63V
2509▲	4822 126 12273	1200pF 10% 2kV
2511	4822 121 43368	47µF 160V
2512	4822 124 41596	22µF 20% 50V
2513	4822 124 41596	22µF 20% 50V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 80341	1µF 20% 160V
2520▲	4822 121 51527	390nF 5% 250V
2520▲	4822 121 51528	470nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2523	4822 121 70398	11nF 5% 2kV
2523	4822 121 70415	8,2nF 5% 1,6kV
2524	4822 121 43915	27nF 5% 630V
2524	4822 121 70005	15nF 5% 630V
2525▲	4822 121 43397	680nF 5% 250V
2528	4822 121 70397	12nF 5% 630V
2529	4822 124 22467	2,2µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11502	470pF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 11501	1,5nF 10% 500V
2537	4822 124 40201	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2545	4822 122 31175	1nF 10% 500V
2546	4822 122 33496	100nF 10% 63V
2547	4822 122 33498	2,7nF 10% 63V
2552	4822 122 33496	100nF 10% 63V
2553	4822 122 33496	100nF 10% 63V
2554▲	4822 124 41525	100µF 20% 25V
2555	4822 122 32891	68nF 10% 63V
2556	4822 124 41584	100µF 20% 10V
2600▲	4822 124 40246	4,7µF 20% 63V
2601	4822 122 31797	22nF 10% 63V
2603	4822 122 32891	68nF 10% 63V
2603	4822 122 32927	220nF 20% 50V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31644	2,2nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2605	4822 122 33498	2,7nF 10% 63V
2606	4822 122 33496	100nF 10% 63V

2609	4822 121 43396	120nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 41576	2,2µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2626	4822 122 32566	3,9nF 10% 63V

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3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10153	15k 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3015▲	4822 052 10828	8Ω2 5% 0,33W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3019▲	4822 052 10828	8Ω2 5% 0,33W
3020▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52296	6k8 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069▲	4822 051 10472	4k7 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 116 52257	22k 5% 0,5W
3074▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 053 21475	4M7 5% 0,5W
3202▲	4822 053 21825	8M2 5% 0,5W
3203	4822 111 41573	470Ω 10% 0,5W
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3230▲	4822 052 10108	1Ω 5% 0,33W
3234	4822 100 11348	1k 30% lin
3236	4822 051 10681	680Ω 2% 0,25W
3237	4822 051 10101	100Ω 2% 0,25W
3239	4822 116 52297	68k 5% 0,5W
3240	4822 116 52297	68k 5% 0,5W
3241	4822 113 80602	5,6Ω 10% 5W
3243▲	4822 053 10221	220Ω 5% 1W
3247	4822 051 10122	1k2 2% 0,25W
3248	4822 051 10562	5k6 2% 0,25W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52195	47Ω 5% 0,5W
3251	4822 051 10471	470Ω 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3254▲	4822 051 10472	4k7 2% 0,25W
3255	4822 116 52243	1k5 5% 0,5W
3256	4822 051 10471	470Ω 2% 0,25W
3257	4822 051 10152	1k5 2% 0,25W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W

3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10681	680Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3385	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3404	4822 051 10332	3k3 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52292	560k 5% 0,5W
3410	4822 100 11213	22k 30% lin
3411	4822 051 10104	100k 2% 0,25W
3411	4822 051 10124	120k 2% 0,25W
3411	4822 051 10753	75k 2% 0,25W
3413	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 81223	1M2 5%
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10229	22Ω 5% 0,33W
3420	4822 050 23905	3M9 1% 0,6W
3420	4822 116 52305	820k 5% 0,5W
3421	4822 116 52263	2k7 5% 0,5W
3422	4822 116 81223	1M2 5%
3422	4822 116 81783	1M5 5% 0,5W
3422	4822 116 83029	1M3 5% 0,5W
3423	4822 116 52235	1M 5% 0,5W
3423	4822 116 52305	820k 5% 0,5W
3423	4822 117 10612	1M1 5%
3424	4822 051 10221	220Ω 2% 0,25W
3425	4822 051 10124	120k 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3427	4822 051 10474	470k 2% 0,25W
3428	4822 116 52271	33k 5% 0,5W
3429	4822 050 11002	1k 1% 0,4W
3430▲	4822 051 10103	10k 2% 0,25W
3431	4822 116 52271	33k 5% 0,5W
3437	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52247	16k 5% 0,5W
3440	4822 051 20222	2k2 5% 0,1W
3441	4822 051 10622	6k2 2% 0,25W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10112	1k1 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3445	4822 051 10223	22k 2% 0,25W
3446	4822 051 10273	27k 2% 0,25W
3450	4822 051 10432	4k3 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10124	120k 2% 0,25W
3456	4822 051 10134	130k 2% 0,25W
3456	4822 051 51204	120k 1% 0,125W
3457	4822 051 10822	8k2 2% 0,25W
3457	4822 051 10912	9k1 2% 0,25W
3457	4822 051 58202	8k2 1% 0,125W
3458▲	4822 116 80676	1Ω5 5% 0,5W

3459▲	4822 116 8
3460▲	4822 053 1
3461	4822 116 8
3462	4822 116 8
3463	4822 116 8
3465	4822 051 1
3466	4822 116 5
3466	4822 116 5
3466	4822 116 5
3467	4822 100 2
3468	4822 053 1
3469	4822 050 1
3469	4822 116 5
3469	4822 116 5
3471	4822 051 1
3471	4822 051 2
3473	4822 116 5
3479	4822 051 1
3480	4822 116 5
3481	4822 051 1
3482	4822 051 1
3483	4822 051 1
3484	4822 051 1
3485	4822 051 1
3495▲	4822 053 1
3500	4822 116
3501	4822 051 1
3502	4822 116
3503	4822 116
3504	4822 053
3504	4822 053
3505	4822 116
3505	4822 116
3506	4822 053
3506	4822 053
3507	4822 116
3507	4822 116
3508	4822 116
3508	4822 116
3509	4822 053
3510	4822 113
3512	4822 051
3513	4822 100
3514	4822 116
3515▲	4822 052
3516▲	4822 052
3517▲	4822 052
3518	4822 116
3519	4822 116
3520▲	4822 052
3521▲	4822 052
3522▲	4822 052
3524	4822 116
3525	4822 116
3526	4822 053
3527	4822 051
3528	4822 050
3528	4822 116
3528	4822 116
3528	4822 116
3529	4822 051
3530	4822 051
3531	4822 116
3532▲	4822 050
3533▲	4822 050
3534▲	4822 052
3535▲	4822 052
3536	4822 116
3537	4822 116
3538	4822 050
3538	4822 050
3540	4822 116
3541	4822 116
3542	4822 051
3543	4822 051
3544	4822 051
3545	4822 116
3547	4822 051
3548	4822 051
3549	4822 051
3550	4822 05
3553▲	4822 05
3554	4822 05
3555	4822 05
3556	4822 05
3557	4822 05
3558	4822 10
3559	4822 05
3560▲	4822 05
3561	4822 05
3562	4822 05
3563	4822 05
3600▲	4822 05
3600	4822 05
3600	4822 05
3601	4822 05

% 0,25W
5% 3W
% 0,25W
5% 0,5W
2% 0,25W
2% 0,25W
5% 0,5W
5% 0,5W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,5W
% 0,5W
5% 0,5W
2% 0,25W
1% 0,6W
5% 0,5W
% 0,6W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
5% 1W
% 0,25W
% lin
2% 0,25W
% 0,5W
% 0,25W
5% 0,5W
2% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
2% 0,25W
% 0,25W
% 0,25W
% 0,25W
0% lin
2% 0,25W
% 0,25W
5% 0,5W
0% lin
2% 0,25W
2% 0,25W
% 0,25W
2% 0,25W
2% 0,25W
0% lin
5%
% 0,5W
2% 0,25W
5% 0,33W
1% 0,6W
5% 0,5W
% 0,5W
5%
5% 0,5W
5% 0,5W
% 0,5W
5% 0,5W
5%
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,5W
0,4W
% 0,25W
% 0,5W
5% 0,5W
5% 0,5W
% 0,5W
% 0,1W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
5% 0,33W
2% 0,25W
2% 0,25W
2% 0,25W
1% 0,125W
% 0,25W
% 0,25W
% 0,125W
% 0,5W

3459▲	4822 116 80676	1Ω5 5% 0,5W
3460▲	4822 053 10271	270Ω 5% 1W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3463	4822 116 80176	1Ω 5% 0,5W
3465	4822 051 10681	680Ω 2% 0,25W
3466	4822 116 52243	1k5 5% 0,5W
3466	4822 116 52279	4k3 5% 0,5W
3466	4822 116 52286	5k1 5% 0,5W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12221	220Ω 5% 3W
3469	4822 050 11002	1k 1% 0,4W
3469	4822 116 52279	4k3 5% 0,5W
3469	4822 116 52286	5k1 5% 0,5W
3471	4822 051 10182	1k8 2% 0,25W
3471	4822 051 20222	2k2 5% 0,1W
3473	4822 116 52253	2k 5% 0,5W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3483	4822 051 10563	56k 2% 0,25W
3484	4822 051 10223	22k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3495▲	4822 053 11271	270Ω 5% 2W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 051 10392	3k9 2% 0,25W
3502	4822 116 52299	7k5 5% 0,5W
3503	4822 116 52299	7k5 5% 0,5W
3504	4822 053 11108	1Ω 5% 2W
3504	4822 053 11128	1Ω2 5% 2W
3505	4822 116 52191	33Ω 5% 0,5W
3505	4822 116 52195	47Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3506	4822 053 11128	1Ω2 5% 2W
3507	4822 116 52191	33Ω 5% 0,5W
3507	4822 116 52195	47Ω 5% 0,5W
3508	4822 116 82773	1k8 10% 5W
3508	4822 116 83003	1k5 10% 5W
3509	4822 053 21154	150k 5% 0,5W
3510	4822 113 80592	150Ω 10% 5W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3514	4822 116 52189	30Ω 5% 0,5W
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3518	4822 116 52267	30k 5% 0,5W
3519	4822 116 52267	30k 5% 0,5W
3520▲	4822 052 11471	470Ω 5% 0,5W
3521▲	4822 052 11471	470Ω 5% 0,5W
3522▲	4822 052 11102	1k 5% 0,5W
3524	4822 116 81753	4Ω7 5% 0,5W
3525	4822 116 52207	1k2 5% 0,5W
3526	4822 053 10688	6Ω8 5% 1W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52207	1k2 5% 0,5W
3528	4822 116 52229	750Ω 5% 0,5W
3528	4822 116 52243	1k5 5% 0,5W
3529	4822 051 10104	100k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3531	4822 116 52191	33Ω 5% 0,5W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 11278	2Ω7 5% 0,5W
3535▲	4822 052 11278	2Ω7 5% 0,5W
3536	4822 116 52221	360Ω 5% 0,5W
3537	4822 116 52189	30Ω 5% 0,5W
3538	4822 050 21203	12k 1% 0,6W
3538	4822 050 21303	13k 1% 0,6W
3540	4822 116 52267	30k 5% 0,5W
3541	4822 116 52285	470k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 10152	1k5 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3547	4822 051 10518	5Ω1 5% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10102	1k 2% 0,25W
3553▲	4822 053 11479	47Ω 5% 2W
3554	4822 051 10008	0Ω 5% 0,25W
3555	4822 051 10681	680Ω 2% 0,25W
3556	4822 051 10008	0Ω 5% 0,25W
3557	4822 051 10182	1k8 2% 0,25W
3558	4822 100 11348	1k 30% lin
3559	4822 051 10182	1k8 2% 0,25W
3560▲	4822 052 10108	1Ω 5% 0,33W
3561	4822 051 10152	1k5 2% 0,25W
3562	4822 051 51102	1k1 1% 0,125W
3563	4822 051 10122	1k2 2% 0,25W
3600▲	4822 051 10472	4k7 2% 0,25W
3600	4822 051 10682	6k8 2% 0,25W
3600	4822 051 10752	7k5 2% 0,25W
3601	4822 051 10104	100k 2% 0,25W
3601	4822 051 10154	150k 2% 0,25W
3602	4822 100 11213	22k 30% lin
3602	4822 100 20166	10k 30% lin
3603▲	4822 051 10103	10k 2% 0,25W
3603	4822 051 10123	12k 2% 0,25W
3603	4822 051 10153	15k 2% 0,25W
3603	4822 051 10203	20k 2% 0,25W
3603	4822 051 10622	6k2 2% 0,25W
3604	4822 051 10104	100k 2% 0,25W
3604	4822 051 10134	130k 2% 0,25W
3604	4822 051 10184	180k 2% 0,25W
3605▲	4822 051 10103	10k 2% 0,25W
3605	4822 051 10133	13k 2% 0,25W
3605	4822 051 10243	24k 2% 0,25W
3606	4822 051 10153	15k 2% 0,25W
3606	4822 051 10223	22k 2% 0,25W
3606	4822 051 10333	33k 2% 0,25W
3607	4822 100 11213	22k 30% lin
3608	4822 051 10102	1k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610▲	4822 051 10472	4k7 2% 0,25W
3611	4822 051 20222	2k2 5% 0,1W
3614	4822 116 52243	1k5 5% 0,5W
3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10683	68k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10622	6k2 2% 0,25W
3621	4822 051 10164	160k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3623	4822 116 80176	1Ω 5% 0,5W
3624	4822 116 52184	18Ω 5% 0,5W
3625	4822 116 52184	18Ω 5% 0,5W
3626	4822 116 52267	30k 5% 0,5W
3627▲	4822 051 10103	10k 2% 0,25W
3628	4822 116 52284	47k 5% 0,5W
3629	4822 051 10224	220k 2% 0,25W
3630	4822 051 10104	100k 2% 0,25W
3631	4822 051 10182	1k8 2% 0,25W
3632	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10153	15k 2% 0,25W
3633	4822 051 10204	200k 2% 0,25W
3633	4822 051 10244	240k 2% 0,25W
3633	4822 051 10683	68k 2% 0,25W
3634	4822 051 10473	47k 2% 0,25W
3650	4822 051 20183	18k 5% 0,1W
3651	4822 051 10102	1k 2% 0,25W
3652	4822 051 10822	8k2 2% 0,25W
3653	4822 051 10104	100k 2% 0,25W
3654	4822 051 20222	2k2 5% 0,1W
3655	4822 051 20222	2k2 5% 0,1W
3656▲	4822 051 10103	10k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W
9406▲	4822 116 52283	4K7 5% 0,5W
9406	4822 116 52296	6K8 5% 0,5W
9459▲	4822 116 52215	220E 5% 0,5W

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5204▲	4822 157 10291	Mainsfilter CU28D5
5230▲	4822 148 81192	SOPS transf.
5231	4822 526 10494	Ferrite bead
5233	4822 526 10494	Ferrite bead
5235	4822 526 10494	Ferrite bead
5237	4822 526 10494	Ferrite bead
5241	4822 157 63696	18µH 10%
5255▲	4822 148 81225	µSOPS transf.
5260	4822 526 10494	Ferrite bead
5262	4822 526 10494	Ferrite bead
5308	4822 157 70001	180µH 10%
5310	4822 157 63301	1µH 15%
5381▲	4822 157 52265	100µH 10%
5503▲	4822 157 63252	Line driver
5504	4822 157 51588	0,82µH 20%
5506	4822 157 51588	0,82µH 20%
5510	4822 157 62412	27µH 10%
5511	4822 157 52407	39µH 7,5%
5514▲	4822 157 70006	DC-shift
5520	4822 156 50107	Linearity corr.
5520	4822 156 50112	Linearity corr. 29"
5521	4822 157 63255	Bridge coil
5521	4822 157 90255	Bridge coil 29"
5524	4822 526 10494	Ferrite bead
5525	4822 157 52392	27µH 10%
5526	4822 157 63253	Choke
5527	4822 157 71097	0,56µH 20%
5534	4822 157 53066	15µH 10%
5543	4822 157 62412	27µH 10%
5548	4822 157 63506	0,09µH
5555▲	4822 140 10443	L.O.T.
5555▲	4822 140 10479	L.O.T. 29"

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6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6017	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
6235	4822 130 80982	BYW29F-100
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6247	4822 130 83086	LL4150
6251	4822 130 80954	LLZ-C5V6
6254	4822 130 80883	LLZ-C4V7
6255	4822 130 80446	LL4148
6260	4822 130 80446	BAS32L
6262	4822 130 82353	BYD34G
6266	4822 130 34278	BZX79-F6V8
6272▲	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	4822 130 32904	BZV85-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 80886	LLZ-F22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 81143	LLZ-C20
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6405	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6440	4822 130 80446	LL4148
6441	4822 130 80446	LL4148
6451	5322 130 34834	BZX79-C3V6
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6467	4822 130 80446	LL4148
6480	4822 130 31554	BZX79-C4V3
6504	4822 130 42488	BYD33D
6506	4822 130 42488	BYD33D
6507	4822 130 83086	LL4150
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6519▲	4822 130 32896	BYD33M
6520▲	4822 130 32896	BYD33M
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6535	4822 130 82512	BYV29F-400
6536	4822 130 80982	BYW29F-100
6538	4822 130 80954	LLZ-C5V6
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 80954	LLZ-C5V6
6552	4822 130 80922	LLZ-C18
6629	4822 130 80446	LL4148
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148

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7000	4822 130 63427	BD534FI
7000	4822 209 73311	TDA1521Q/N4
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63239	ON4827
7242	5322 130 44349	BC635
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7256	5322 130 42012	BC858
7268	4822 130 63558	BD533
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	5322 130 42756	BC857C
7369	5322 130 42755	BC847C
7370	5322 130 42755	BC847C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7444	5322 130 42136	BC848C
7445	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44104	BC328
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7504	4822 130 62934	2xON4673
7506	4822 130 62843	2SC4288A
7506	4822 130 62934	2xON4673
7512	4822 130 41109	BD135-16
7513	4822 130 41194	BD136-16
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63427	BD534FI
7551	4822 209 70672	LM358N
7552	5322 130 44349	BC635
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 63508	BD536FI
7616	4822 130 61207	BC848
7618	4822 130 61207	BC848
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C

Small signal panel [C] [D] [F] [H]

4822 255 40901	IC socket 40P
4822 267 41147	7P grey
4822 290 40295	7P male grey
4822 267 41095	5P male
4822 265 41326	10P male hor.
4822 264 40207	3P male
4822 267 51242	10P male vert.
4822 265 31009	3P pinstrip
4822 265 20512	2P green
4822 290 61116	9P pistrip
4822 265 40442	10P male
4822 267 40666	3P male vert.
4822 267 41143	3P male
4822 265 41335	11P
4822 267 41144	3P
4822 265 20509	2P grey
4822 265 30828	5P male vert.
4822 265 31112	5P male hor.
4822 267 41145	5P male
4822 265 31101	3P male hor.
4822 265 40252	7P male
4822 265 40253	8P male

Spare parts list / Stükliste / Liste des pièces

	4822 267 50637	10P female

Various

	4822 267 20427	Socket SCART+4xcinch
	4822 267 20457	Socket SCART+2x cinch
	4822 267 51058	Socket SCART
	4822 267 20409	Socket cinch+SVHS
	4822 267 41005	Socket 2xcinch+2xSVHS
	4822 404 31305	Bracket for black-stretch
	4822 212 30803	µP panel
	4822 900 10506	Software FL2.24/FL2.16/FL 2.26/FL4.17
1160	4822 210 10507	FQ816ME/B
1160	4822 210 10548	FQ916ME/BL
1160	4822 210 10549	FQ916DME/B
1160	4822 210 10556	FQ944/LIF
1160	4822 210 10557	FQ916DMF/IF
1160	4822 210 10558	FQ916MF/LIF
1160	4822 210 10565	FQ916/BL
1248	4822 242 80364	Filter 4,434MHz
1379	4822 242 70736	Crystal 7,159 090 MHz
1380	4822 242 70304	Crystal 8,867 238 MHz
1600	4822 212 30039	SECAM DK panel
1602	4822 242 80276	Crystal 10MHz

⊣⊢

2111	4822 126 11544	22nF 63V
2114	4822 124 22606	68µF 20% 16V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 126 11544	22nF 63V
2121	5322 122 31647	1nF 10% 63V
2122▲	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2124	4822 126 11544	22nF 63V
2130	4822 122 31797	22nF 10% 63V
2132	4822 122 31797	22nF 10% 63V
2137▲	4822 122 32442	10nF 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2161	4822 122 33496	100nF 10% 63V
2162	4822 124 41829	1000µF 20% 6,3V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2165	4822 122 31947	100nF 20% 63V
2166	4822 124 40195	150µF 20% 16V
2168	4822 122 32927	220nF 20% 50V
2169▲	4822 122 32442	10nF 50V
2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V
2172▲	4822 124 40433	47µF 20% 25V
2180	4822 122 31947	100nF 20% 63V
2181	4822 126 11544	22nF 63V
2188	4822 126 11544	22nF 63V
2189	4822 126 11544	22nF 63V
2190	4822 121 41856	22nF 5% 250V
2191	4822 126 11544	22nF 63V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2198	4822 121 41856	22nF 5% 250V
2216	4822 122 32927	220nF 20% 50V
2219	4822 122 32927	220nF 20% 50V
2221	4822 122 31775	680pF 2% 63V
2221	4822 122 32482	22pF 2% 63V
2234	4822 122 32927	220nF 20% 50V
2240	4822 122 32927	220nF 20% 50V
2242▲	4822 124 40196	220µF 20% 16V
2243	4822 121 42408	220nF 5% 63V
2245	4822 122 32927	220nF 20% 50V
2249	4822 122 32862	10nF 80% 50V
2250	4822 051 10102	1k 2% 0,25W
2252	4822 121 42408	220nF 5% 63V
2253	4822 126 11492	220nF 10% 50V
2254	4822 122 32927	220nF 20% 50V
2255	4822 124 41643	100µF 20% 16V
2257	4822 122 31947	100nF 20% 63V
2258	4822 122 31765	100pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2261	4822 122 31947	100nF 20% 63V
2268	4822 122 31947	100nF 20% 63V
2269	4822 122 32482	22pF 2% 63V
2270	4822 126 11544	22nF 63V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 126 10324	33pF 2% 63V
2306	4822 122 31772	47pF 2% 63V
2309	4822 122 31772	47pF 2% 63V
2312	4822 126 11544	22nF 63V
2313	4822 122 31774	56pF 2% 63V
2314	4822 122 32482	22pF 2% 63V
2318	4822 121 42408	220nF 5% 63V
2324	4822 126 11544	22nF 63V
2338	4822 122 31772	47pF 2% 63V
2342	4822 122 31972	39pF 2% 63V
2343	4822 122 31727	470pF 2% 63V
2344	4822 122 31775	680pF 2% 63V
2345	4822 122 31807	1200pF 2% 63V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 31352	180pF 2% 100V
2366	4822 126 11544	22nF 63V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 2% 63V
2371	4822 122 31825	27pF 2% 63V
2372	4822 122 31965	220pF 2% 63V
2373	4822 122 31965	220pF 2% 63V
2374	4822 126 11544	22nF 63V
2375	4822 126 11544	22nF 63V
2376	4822 126 11544	22nF 63V
2377	5322 121 42661	330nF 5% 63V
2378	4822 122 31947	100nF 20% 63V
2379	4822 125 50207	2p-33p trim.
2380	4822 125 50207	2p-33p trim.
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383▲	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385▲	4822 122 32442	10nF 50V
2387	4822 124 40248	10µF 20% 63V
2388	5322 122 33446	3,3nF 10% 63V
2390	4822 126 11544	22nF 63V
2391	4822 126 11544	22nF 63V
2392	4822 126 11544	22nF 63V
2395	4822 126 11544	22nF 63V
2396	4822 122 32927	220nF 20% 50V
2397	4822 126 11544	22nF 63V
2398	4822 124 40248	10µF 20% 63V
2399▲	4822 124 40433	47µF 20% 25V
2400	4822 126 11544	22nF 63V
2433	4822 126 11544	22nF 63V
2434	5322 122 33446	3,3nF 10% 63V
2435	5322 122 33446	3,3nF 10% 63V
2436	4822 122 31961	68pF 2% 63V
2438	4822 126 11544	22nF 63V
2440	4822 126 11544	22nF 63V
2442	4822 126 11544	22nF 63V
2445	4822 126 11804	330nF
2446	4822 126 11804	330nF
2447	4822 126 11804	330nF
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 22466	1µF 20% 50V
2453	4822 122 31774	56pF 2% 63V
2454	4822 126 10324	33pF 2% 63V
2455	4822 126 10324	33pF 2% 63V
2456	4822 126 10324	33pF 2% 63V
2476▲	4822 124 40246	4,7µF 20% 63V
2478	4822 122 31784	4,7nF 10% 50V
2479	4822 122 32183	56nF 10% 50V
2480	4822 124 40272	33µF 20% 16V
2600	4822 122 31947	100nF 20% 63V
2602	4822 122 31947	100nF 20% 63V
2604	4822 122 31947	100nF 20% 63V
2606	4822 122 31947	100nF 20% 63V
2608	4822 122 32927	220nF 20% 50V
2620	4822 122 32927	220nF 20% 50V
2622	4822 122 32927	220nF 20% 50V
2624	5322 122 31842	330pF 2% 63V
2626	4822 122 32927	220nF 20% 50V
2627	5322 124 41431	22µF 20% 35V
2628	5322 122 31842	330pF 2% 63V
2630	4822 122 32927	220nF 20% 50V
2632	5322 122 31842	330pF 2% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 2% 63V
2638	4822 121 42408	220nF 5% 63V
2642	4822 122 32927	220nF 20% 50V
2646	4822 122 32927	220nF 20% 50V
2658	4822 122 31961	68pF 2% 63V
2659	4822 122 31961	68pF 2% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 31947	100nF 20% 63V
2681	4822 122 32542	47nF 10% 63V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15nF 10% 50V
2690	4822 122 31782	15nF 10% 50V
2692	4822 122 31981	33nF 5% 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF 5% 50V
2697	4822 122 32765	820pF 2% 63V
2698	4822 122 31916	5,6nF 10% 63V
2699	4822 122 32765	820pF 2% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	5322 124 41431	22µF 20% 35V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 126 11544	22nF 63V
2720	5322 124 41431	22µF 20% 35V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 42362	33µF 20% 16V
2728	4822 124 42362	33µF 20% 16V
2734	4822 126 11544	22nF 63V

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3101	4822 116 52175	100Ω 5% 0,5W
3104	4822 116 52175	100Ω 5% 0,5W
3112	4822 050 11002	1k 1% 0,4W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3116	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122	4822 051 10123	12k 2% 0,25W
3123	4822 051 10123	12k 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3130	4822 051 10101	100Ω 2% 0,25W
3130▲	4822 051 10103	10k 2% 0,25W
3131	4822 116 52175	100Ω 5% 0,5W
3132	4822 116 52175	100Ω 5% 0,5W
3133	4822 051 10151	150Ω 2% 0,25W
3134	4822 116 52175	100Ω 5% 0,5W
3135	4822 051 10101	100Ω 2% 0,25W
3136	4822 051 10101	100Ω 2% 0,25W
3137	4822 116 52175	100Ω 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3140	4822 050 11002	1k 1% 0,4W
3141	4822 050 11002	1k 1% 0,4W
3142	4822 050 11002	1k 1% 0,4W
3143	4822 050 11002	1k 1% 0,4W
3144	4822 050 11002	1k 1% 0,4W
3145	4822 050 11002	1k 1% 0,4W
3146	4822 050 11002	1k 1% 0,4W
3151	4822 051 10562	5k6 2% 0,25W
3153▲	4822 051 10103	10k 2% 0,25W
3154	4822 051 10152	1k5 2% 0,25W
3155	4822 051 10104	100k 2% 0,25W
3156	4822 051 10562	5k6 2% 0,25W
3157	4822 050 11002	1k 1% 0,4W
3158	4822 050 11002	1k 1% 0,4W
3159▲	4822 051 10103	10k 2% 0,25W
3160▲	4822 052 10109	10Ω 5% 0,33W
3160▲	4822 052 10758	7Ω5 5% 0,33W
3161▲	4822 051 10103	10k 2% 0,25W
3162▲	4822 052 10159	15Ω 5% 0,33W
3162▲	4822 052 10758	7Ω5 5% 0,33W
3163	4822 051 10223	22k 2% 0,25W
3164	4822 051 10101	100Ω 2% 0,25W
3164	4822 051 10108	1Ω 5% 0,25W
3165	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10108	1Ω 5% 0,25W
3166▲	4822 052 10228	2Ω2 5% 0,33W
3167	4822 051 10122	1k2 2% 0,25W
3168▲	4822 051 10242	2k4 2% 0,25W
3169	4822 050 11002	1k 1% 0,4W
3170▲	4822 116 82772	3Ω9 5% 0.3W
3171	4822 052 11511	510Ω 5% 0,5W
3172▲	4822 052 10159	15Ω 5% 0,33W
3172▲	4822 111 41424	22Ω 5% 0,3W
3175	4822 051 10153	15k 2% 0,25W
3176▲	4822 051 10103	10k 2% 0,25W
3177▲	4822 051 10103	10k 2% 0,25W
3178	4822 051 10223	22k 2% 0,25W
3180	4822 116 52224	470Ω 5% 0,5W
3181	4822 051 10822	8k2 2% 0,25W
3182	4822 116 52214	200Ω 5% 0,5W
3183	4822 116 52233	10k 5% 0,5W
3184	4822 051 51201	120Ω 1% 0,125W
3185	4822 051 10471	470Ω 2% 0,25W
3186▲	4822 116 52256	2k2 5% 0,5W
3187	4822 051 10759	75Ω 2% 0,25W
3189	4822 051 10223	22k 2% 0,25W
3190	4822 051 10823	82k 2% 0,25W
3191	4822 051 10823	82k 2% 0,25W
3192	4822 051 10153	15k 2% 0,25W
3193	4822 051 10331	330Ω 2% 0,25W
3194	4822 051 10331	330Ω 2% 0,25W
3200▲	4822 051 10472	4k7 2% 0,25W
3201▲	4822 051 10472	4k7 2% 0,25W
3202▲	4822 051 10472	4k7 2% 0,25W
3203	4822 116 52191	33Ω 5% 0,5W
3204	4822 116 52175	100Ω 5% 0,5W
3205	4822 051 10759	75Ω 2% 0,25W
3206	4822 051 10759	75Ω 2% 0,25W
3207	4822 051 10759	75Ω 2% 0,25W
3208	4822 051 10101	100Ω 2% 0,25W
3209	4822 051 10101	100Ω 2% 0,25W
3210	4822 051 10101	100Ω 2% 0,25W
3211▲	4822 116 52217	270Ω 5% 0,5W
3211	4822 116 52224	470Ω 5% 0,5W
3212	4822 116 52191	33Ω 5% 0,5W
3213	4822 051 10102	1k 2% 0,25W
3215	4822 051 10689	68Ω 2% 0,25W
3216▲	4822 052 10828	8Ω2 5% 0,33W
3217	4822 116 52224	470Ω 5% 0,5W
3218	4822 051 10471	470Ω 2% 0,25W
3219	4822 051 10008	0Ω 5% 0,25W
3219	4822 051 10271	270Ω 2% 0,25W
3220	4822 051 10471	470Ω 2% 0,25W
3220	4822 051 10561	560Ω 2% 0,25W
3222▲	4822 116 52217	270Ω 5% 0,5W
3224	4822 051 10759	75Ω 2% 0,25W
3225	4822 051 10471	470Ω 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3233	4822 051 10102	1k 2% 0,25W
3234	4822 051 10759	75Ω 2% 0,25W
3235	4822 051 10759	75Ω 2% 0,25W
3237▲	4822 116 52217	270Ω 5% 0,5W
3238	4822 116 52222	390Ω 5% 0,5W
3239	4822 051 10271	270Ω 2% 0,25W
3240	4822 051 10759	75Ω 2% 0,25W
3242▲	4822 116 52219	330Ω 5% 0,5W
3243	4822 051 10152	1k5 2% 0,25W
3244	4822 051 10102	1k 2% 0,25W
3245	4822 051 10474	470k 2% 0,25W
3246	4822 051 10331	330Ω 2% 0,25W
3247	4822 051 10102	1k 2% 0,25W
3248	4822 051 10681	680Ω 2% 0,25W
3249	4822 051 10102	1k 2% 0,25W
3253	4822 051 10331	330Ω 2% 0,25W
3254▲	4822 052 10828	8Ω2 5% 0,33W
3255	4822 051 10821	820Ω 2% 0,25W
3259▲	4822 051 10103	10k 2% 0,25W
3260▲	4822 052 10828	8Ω2 5% 0,33W
3261	4822 051 10471	470Ω 2% 0,25W
3262▲	4822 051 10103	10k 2% 0,25W
3263	4822 051 10689	68Ω 2% 0,25W
3264	4822 051 10471	470Ω 2% 0,25W
3265▲	4822 051 10103	10k 2% 0,25W
3266▲	4822 051 10103	10k 2% 0,25W
3267▲	4822 051 10103	10k 2% 0,25W
3268	4822 051 10101	100Ω 2% 0,25W
3269	4822 051 10561	560Ω 2% 0,25W
3270▲	4822 051 10472	4k7 2% 0,25W
3271	4822 051 10471	470Ω 2% 0,25W
3272	4822 116 52228	680Ω 5% 0,5W
3273	4822 051 10471	470Ω 2% 0,25W
3274▲	4822 051 10103	10k 2% 0,25W
3275	4822 051 10689	68Ω 2% 0,25W
3276	4822 051 10471	470Ω 2% 0,25W
3277	4822 051 10271	270Ω 2% 0,25W
3279	4822 051 10689	68Ω 2% 0,25W
3281	4822 116 52201	75Ω 5% 0,5W
3285	4822 051 10123	12k 2% 0,25W
3286	4822 051 10123	12k 2% 0,25W
3287	4822 051 10123	12k 2% 0,25W
3288	4822 051 10123	12k 2% 0,25W
3300▲	4822 051 10103	10k 2% 0,25W
3301	4822 051 10332	3k3 2% 0,25W
3302	4822 051 10331	330Ω 2% 0,25W
3303	4822 051 10361	360Ω 2% 0,25W
3304	4822 051 10101	100Ω 2% 0,25W
3305	4822 051 10104	100k 2% 0,25W
3306	4822 051 10361	360Ω 2% 0,25W
3307	4822 051 10331	330Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10101	100Ω 2% 0,25W
3310▲	4822 116 52283	4k7 5% 0,5W
3316	4822 051 10112	1k1 2% 0,25W
3318▲	4822 051 10103	10k 2% 0,25W
3319	4822 116 52233	10k 5% 0,5W
3320▲	4822 116 52283	4k7 5% 0,5W
3321	4822 051 10511	510Ω 2% 0,25W
3325	4822 051 10682	6k8 2% 0,25W
3326▲	4822 051 10103	10k 2% 0,25W
3326	4822 051 10123	12k 2% 0,25W
3326	4822 051 103323k3 2% 0,25W	
3326	4822 122 31947	100nF 20% 63V

Spare parts list / Stükliste / Liste des pièces

3327	4822 051 10122	1k2 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3338	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10153	15k 2% 0,25W
3342	4822 051 20222	2k2 5% 0,1W
3344	4822 051 10273	27k 2% 0,25W
3345	4822 051 10102	1k 2% 0,25W
3346	4822 051 10102	1k 2% 0,25W
3348▲	4822 051 10472	4k7 2% 0,25W
3350	4822 051 51201	120Ω 1% 0,125W
3351▲	4822 051 10472	4k7 2% 0,25W
3353	4822 051 10332	3k3 2% 0,25W
3360▲	4822 052 10278	2Ω7 5% 0,33W
3361	4822 051 10102	1k 2% 0,25W
3365	4822 051 10331	330Ω 2% 0,25W
3365	4822 051 10332	3k3 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330Ω 30% lin
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3375	4822 116 80176	1Ω 5% 0,5W
3377	4822 051 10682	6k8 2% 0,25W
3380	4822 050 11002	1k 1% 0,4W
3382	4822 051 20222	2k2 5% 0,1W
3383	4822 051 10333	33k 2% 0,25W
3387	4822 050 11002	1k 1% 0,4W
3389	4822 051 10182	1k8 2% 0,25W
3391	4822 051 20222	2k2 5% 0,1W
3392	4822 051 10101	100Ω 2% 0,25W
3393	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10101	100Ω 2% 0,25W
3395	4822 051 10471	470Ω 2% 0,25W
3396	4822 051 20222	2k2 5% 0,1W
3397	4822 052 10249	24Ω 5% 0,33W
3397	4822 116 81192	12Ω 5% 0,3W
3398	4822 116 52175	100Ω 5% 0,5W
3399	4822 116 52175	100Ω 5% 0,5W
3401▲	4822 052 10339	33Ω 5% 0,33W
3425	4822 116 52224	470Ω 5% 0,5W
3426	4822 116 52224	470Ω 5% 0,5W
3439	4822 051 10221	220Ω 2% 0,25W
3441	4822 051 10221	220Ω 2% 0,25W
3443	4822 051 10221	220Ω 2% 0,25W
3450	4822 051 20222	2k2 5% 0,1W
3451▲	4822 051 10103	10k 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3453	4822 051 10511	510Ω 2% 0,25W
3454	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10101	100Ω 2% 0,25W
3465	4822 051 10102	1k 2% 0,25W
3466	4822 051 10479	47Ω 2% 0,25W
3471	4822 116 52233	10k 5% 0,5W
3472	4822 051 10682	6k8 2% 0,25W
3473	4822 051 10362	3k6 2% 0,25W
3474	4822 051 10101	100Ω 2% 0,25W
3475	4822 051 10124	120k 2% 0,25W
3476	4822 051 10154	150k 2% 0,25W
3477	4822 116 52286	5k1 5% 0,5W
3477	4822 116 52297	68k 5% 0,5W
3478	4822 116 52224	470Ω 5% 0,5W
3479	4822 051 10008	0Ω 5% 0,25W
3479	4822 051 10223	22k 2% 0,25W
3480▲	4822 052 10278	2Ω7 5% 0,33W
3481▲	4822 052 10278	2Ω7 5% 0,33W
3482	4822 052 10431	430Ω 5% 0,33W
3483	4822 116 52175	100Ω 5% 0,5W
3484	4822 051 10102	1k 2% 0,25W
3600	4822 051 10301	300Ω 2% 0,25W
3600	4822 051 10362	3k6 2% 0,25W
3602	4822 100 11212	2k2 30% lin
3603	4822 051 10108	1Ω 5% 0,25W
3603	4822 051 10332	3k3 2% 0,25W
3604	4822 051 10182	1k8 2% 0,25W
3604	4822 051 10272	2k7 2% 0,25W
3605▲	4822 051 10472	4k7 2% 0,25W
3606▲	4822 052 10279	27Ω 5% 0,33W
3608	4822 051 10101	100Ω 2% 0,25W
3610	4822 051 10101	100Ω 2% 0,25W
3612	4822 051 10102	1k 2% 0,25W
3620	4822 051 10184	180k 2% 0,25W
3622	4822 051 10184	180k 2% 0,25W
3624	4822 051 10102	1k 2% 0,25W
3626	4822 051 10184	180k 2% 0,25W
3628	4822 051 10102	1k 2% 0,25W
3630	4822 051 10184	180k 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3634	4822 051 10184	180k 2% 0,25W
3636	4822 051 10102	1k 2% 0,25W
3638	4822 051 10184	180k 2% 0,25W
3642	4822 051 10184	180k 2% 0,25W
3646	4822 051 10184	180k 2% 0,25W
3650	4822 051 10392	3k9 2% 0,25W
3651	4822 051 10123	12k 2% 0,25W
3652	4822 051 10392	3k9 2% 0,25W
3653	4822 051 10123	12k 2% 0,25W
3654	4822 116 52244	15k 5% 0,5W
3660	4822 051 10331	330Ω 2% 0,25W
3662	4822 051 10151	150Ω 2% 0,25W
3664	4822 051 10331	330Ω 2% 0,25W
3665▲	4822 116 81193	15Ω 5% 0,3W
3666	4822 051 10151	150Ω 2% 0,25W
3668	4822 051 10331	330Ω 2% 0,25W
3672	4822 051 10331	330Ω 2% 0,25W
3680▲	4822 052 10279	27Ω 5% 0,33W
3682	4822 051 10568	5Ω6 5% 0,25W
3684	4822 116 52175	100Ω 5% 0,5W
3686	4822 116 52175	100Ω 5% 0,5W
3700	4822 116 52263	2k7 5% 0,5W
3702	4822 051 10223	22k 2% 0,25W
3704	4822 051 10102	1k 2% 0,25W
3706▲	4822 116 81203	10Ω 5% 0,3W
3708	4822 051 10101	100Ω 2% 0,25W
3710	4822 051 20183	18k 5% 0,1W
3712	4822 116 52203	91Ω 5% 0,5W
3713	4822 116 52203	91Ω 5% 0,5W
3714	4822 051 10828	8Ω2 5% 0,25W
3720▲	4822 116 81203	10Ω 5% 0,3W
3722	4822 116 52263	2k7 5% 0,5W
3724	4822 051 10223	22k 2% 0,25W
3726	4822 051 10102	1k 2% 0,25W
3728	4822 051 10101	100Ω 2% 0,25W
3730	4822 051 20183	18k 5% 0,1W
3732	4822 116 52203	91Ω 5% 0,5W
3733	4822 116 52203	91Ω 5% 0,5W
3734	4822 051 10828	8Ω2 5% 0,25W
3750	4822 051 10272	2k7 2% 0,25W
3751▲	4822 051 10472	4k7 2% 0,25W
3997	4822 051 10008	0Ω 5% 0,25W
3997	4822 122 31947	100nF 20% 63V
4xxx	4822 051 10008	0Ω 5% 0,25W
9104	4822 116 52191	33E 5% 0,5W

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5115	4822 152 20677	10μH 10%
5270	4822 157 52983	22μH 10%
5280	4822 157 63065	0,68μH 20%
5303	4822 157 53302	1μH 20%
5304	4822 157 53302	1μH 20%
5305	4822 157 62823	26μH 6%
5330	4822 157 62823	26μH 6%
5331	4822 152 20678	33μH 10%
5332	4822 157 62823	26μH 6%
5345	4822 157 62822	4,5μH 6%
5346	4822 157 62823	26μH 6%
5370	4822 157 62824	7,5μH 6%
5454	4822 157 63065	0,68μH 20%
5455	4822 157 63065	0,68μH 20%
5456	4822 157 63065	0,68μH 20%
5460	4822 157 63065	0,68μH 20%

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6112	4822 130 82334	BAS85
6117	4822 130 80906	LLZ-F7V5
6120	4822 130 80446	LL4148
6121	4822 130 80446	LL4148
6135	4822 130 80905	LLZ-F5V1
6136	4822 130 83086	LL4150
6137	4822 130 83086	LL4150
6163	4822 130 81226	LLZ-F33
6165	4822 130 80446	LL4148
6166	4822 130 80446	LL4148
6168	4822 130 80446	LL4148
6170	4822 130 80446	LL4148
6172	4822 130 80906	LLZ-C7V5
6173	4822 130 80446	LL4148
6178	4822 130 81222	LLZ-C15
6179	4822 130 81222	LLZ-C15
6205	4822 130 80446	LL4148
6206	4822 130 80446	LL4148
6207	4822 130 80446	LL4148
6256	4822 130 80446	LL4148
6257	4822 130 80446	LL4148
6280	4822 130 80446	LL4148
6280	4822 130 82334	BAS85
6281	4822 130 80446	LL4148
6281	4822 130 82334	BAS85
6331	4822 130 80882	LLZ-C3V9
6342	4822 130 80888	BA682
6343	4822 130 80888	BA682
6345	4822 130 30841	1N4150
6370	4822 130 83406	LLZ-F3V6
6386	4822 130 80446	LL4148
6387	4822 130 80954	LLZ-C5V6
6450	4822 130 81512	LLZ-C6V2
6465	4822 130 80446	LL4148
6471▲	4822 130 30621	1N4148
6478	4822 130 82345	LLZ-C22
6478	4822 130 82346	LLZ-C27
6479	4822 130 80877	BAV103
6480	4822 130 82882	LLZ-F8V2
6481	4822 130 80881	LLZ-C33
6610▲	4822 130 30621	1N4148
6611▲	4822 130 30621	1N4148
6660	4822 130 80446	LL4148
6661	4822 130 81223	LLZ-C2V4
6662	4822 130 80446	LL4148
6663	4822 130 81223	LLZ-C2V4
6664	4822 130 80446	LL4148
6665	4822 130 80446	LL4148

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7110	4822 130 42513	BC858C
7119▲	5322 130 41982	BC848B
7120▲	5322 130 41982	BC848B
7121	4822 130 42513	BC858C
7137	4822 209 32283	ST24C08CB1
7150	5322 130 42136	BC848C
7175	5322 209 10883	PCF8574P
7176	4822 130 42513	BC858C
7177	4822 130 42513	BC858C
7178▲	5322 130 41982	BC848B
7182	5322 130 44743	BSR12
7183▲	5322 130 41982	BC848B
7186	4822 209 73852	PMBT2369
7188	4822 130 60511	BC847B
7193	4822 209 61115	LF353N
7216	4822 130 42615	BC817-40
7219	4822 209 63292	TEA6414
7243	5322 130 41983	BC858B
7244▲	5322 130 41982	BC848B
7258	5322 209 10421	HEF4094BP
7260	4822 130 42615	BC817-40
7261	5322 130 42136	BC848C
7265▲	5322 130 41982	BC848B
7268	4822 130 42615	BC817-40
7270▲	5322 130 41982	BC848B
7273	4822 130 42615	BC817-40
7305	5322 130 41983	BC858B
7311▲	5322 130 41982	BC848B
7314	5322 130 42136	BC848C
7324	4822 209 63901	TDA4568/V2
7330	5322 130 42136	BC848C
7331	5322 130 42136	BC848C
7332	5322 130 42136	BC848C
7333	5322 130 42136	BC848C
7335	4822 130 42513	BC858C
7336	5322 130 42136	BC848C
7338▲	5322 130 41982	BC848B
7340	4822 130 60887	BF840
7350▲	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 31714	TDA4661/V2
7390	4822 130 42513	BC858C
7395	4822 209 30394	TDA8443B/C1
7430	4822 209 31592	TDA4680/V6
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C
7480	4822 130 63528	BD533P
7600	4822 209 63967	TDA8417/V3
7620	4822 209 10263	4052B
7622	4822 209 10263	4052B
7630	4822 209 61115	LF353N
7635	4822 209 61115	LF353N
7660▲	5322 130 41982	BC848B
7661▲	5322 130 41982	BC848B
7662▲	5322 130 41982	BC848B
7680	4822 209 63734	TDA8425/V7
7704▲	4822 209 83163	LM833N
7706▲	5322 130 41982	BC848B
7708	5322 130 41983	BC858B
7730▲	5322 130 41982	BC848B
7732	5322 130 41983	BC858B

Mains switch panel [A]

▲	4822 265 40596	2P male
▲	4822 265 30389	2P male
	4822 267 51348	2P horizontal

Various

1001	4822 212 30763	Mains switch panel FL2
1001	4822 212 31409	Mains switch panel FL4
	4822 276 13422	Mains switch FL2
	4822 276 13498	Mains switch FL4

-▭-

3201▲	4822 053 21475	4M7 5% 0,5W

Mains filter panel [A]

▲	4822 265 30389	2P male

Various

1002	4822 212 30783	Mains filter panel FL2
1002	4822 212 31408	Mains filter panel FL4
▲	4822 256 30496	Fuse holder
1200▲	4822 070 33151	Fuse 3,15A

-||-

2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V

-▭-

3203	4822 111 41573	470Ω
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W

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5202▲	4822 157 10291	Transf.CU28D5

Control panel [H]

	4822 265 31097	4P
	4822 265 41334	10P

Various

1004	4822 212 31264	Control panel FL2
1004	4822 212 31406	Keyboard panel FL4
	4822 276 13396	Tack switch

-▭-

3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3161	4822 116 52224	470Ω 5% 0,5W
3161	4822 051 10471	470Ω 2% 0,25W
3162	4822 116 52224	470Ω 5% 0,5W
3162	4822 051 10471	470Ω 2% 0,25W
3163	4822 116 52224	470Ω 5% 0,5W
3163	4822 051 10471	470Ω 2% 0,25W
3164	4822 116 52224	470Ω 5% 0,5W
3164	4822 051 10471	470Ω 2% 0,25W
3165	4822 116 52224	470Ω 5% 0,5W
3165	4822 051 10471	470Ω 2% 0,25W
3166	4822 051 10471	470Ω 2% 0,25W
3167	4822 051 10471	470Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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6131	4822 130 83407	LSS260-DO
6132	4822 130 83407	LSS260-DO
6133	4822 130 83407	LSS260-DO
6134	4822 130 83407	LSS260-DO
6135	4822 130 83407	LSS260-DO
6136	4822 130 83407	LSS260-DO
6137	4822 130 83407	LSS260-DO

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7131	5322 130 42012	BC858
7132	5322 130 42012	BC858
7133	5322 130 42012	BC858
7134	5322 130 42012	BC858
7135	5322 130 42012	BC858
7136	5322 130 42012	BC858
7137	5322 130 42012	BC858

Led panel [H]

	4822 265 31096	3P
	4822 265 31097	4P

Various

1003	4822 212 30765	Led panel FL2
1003	4822 212 31407	Led panel FL4
	4822 256 92079	Led holder FL2

	4
1100	4
1100	4

-||-

2100	4
2131	4

-▭-

3100	4
3128	4
3188	4
3189	4
3198	4
3199	4
4xxx	4

-∿-

5100	4

-▶|-

6128	4
6129	4

⊗ ▭

7128	5
7128	5
7129	5
7129	5
7130	5

Conn

	4
	4
	4

Various

1005	48
1005	48
	48
	48

-||-

2241	48
2640	53
2640	48
2644	53
2644	48
2716	48
2736	48

-▭-

3241	48
3251	48
3252	48
3640	48
3641	48
3644	48
3645	48
4xxx	48

North/

	48
	48

Various

1060	48

-||-

2450	48
2452	48
2453	53

	4822 255 41325	Led holder FL4
1100	4822 212 23281	IR receiver FL2
1100	4822 212 31399	IR receiver FL4

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2100	4822 124 40684	150µF 20% 6,3V
2131	4822 124 22606	68µF 20% 16V

▭

3100	4822 051 10102	1k 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3188	4822 051 10101	100Ω 2% 0,25W
3189	4822 051 10101	100Ω 2% 0,25W
3198	4822 051 10181	180Ω 2% 0,25W
3199	4822 051 10181	180Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5100	4822 157 53906	47µH

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6128	4822 130 80313	TLHG4400
6129	4822 130 83414	TLHR4405

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7128	5322 130 42012	BC858
7128	5322 130 41983	BC858B
7129	5322 130 42012	BC858
7129	5322 130 41983	BC858B
7130	5322 130 42136	BC848C

Connector panel [C]

4822 267 40666	3P
4822 265 30985	3P black
4822 265 41335	11P

Various

1005	4822 212 31265	Connector panel FL2
1005	4822 212 31405	Connector panel FL4
	4822 267 20454	Socket headph.+cinch+SV HS FL2
	4822 267 20462	Socket headph.+cinch+SV HS FL4

⊣⊢

2241	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2640	4822 121 70438	330pF 5% 100V
2644	5322 122 31842	330pF 2% 63V
2644	4822 121 70438	330pF 5% 100V
2716	4822 122 32597	6,8nF 10% 63V
2736	4822 122 32597	6,8nF 10% 63V

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3241	4822 051 10759	75Ω 2% 0,25W
3251	4822 051 10759	75Ω 2% 0,25W
3252	4822 051 10759	75Ω 2% 0,25W
3640	4822 051 10102	1k 2% 0,25W
3641	4822 051 10223	22k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3645	4822 051 10223	22k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

North/South panel [B']

4822 264 40207	3P male
4822 265 20509	2P grey

Various

1060	4822 212 31004	North/South panel

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2450	4822 121 51049	15nF 1% 63V
2452	4822 121 41857	10nF 5% 250V
2453	5322 121 42386	100nF 5% 63V

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3452	4822 116 52175	100Ω 5% 0,5W
3453	4822 116 52195	47Ω 5% 0,5W
3454	4822 116 52283	4k7 5% 0,5W
3455	4822 116 52283	4k7 5% 0,5W
3456	4822 116 52264	27k 5% 0,5W
3457	4822 116 52264	27k 5% 0,5W
3459	4822 053 11108	1Ω 5% 2W
3460	4822 116 52217	270Ω 5% 0,5W
3461	5322 100 11542	4k7 30% lin
3462	4822 116 52207	1k2 5% 0,5W

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5450	4822 157 62336	100µH 10%
5452	4822 157 71033	N/S correction coil

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6452	4822 130 30621	1N4148
6453	5322 130 34834	BZX79-C3V6
6454	4822 130 34499	BZX79-C20
6455	4822 130 30621	1N4148

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7450	4822 130 63441	J108
7451	4822 130 63441	J108

Scavem amplifier panel [Z]

4822 265 20509	2P grey
4822 265 40818	8P male
4822 264 40207	3P male
4822 267 41143	3P male
4822 267 40666	3P male blue

Various

1041	4822 212 31327	Scaven panel FL2.24 28"
1041	4822 212 31258	Scavem panel FL2.24 32"
1041	4822 212 31259	Scavem panel FL2.X6

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2604	4822 124 22427	47µF 20% 40V
2605	4822 122 33496	100nF 10% 63V
2606	4822 124 22427	47µF 20% 40V
2607	4822 122 33496	100nF 10% 63V
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 33496	100nF 10% 63V
2620▲	4822 122 32442	10nF 50V
2622▲	4822 122 32442	10nF 50V
2623	4822 122 33496	100nF 10% 63V
2624▲	4822 122 32442	10nF 50V
2625	4822 124 40255	100µF 20% 63V
2634▲	4822 122 32442	10nF 50V
2636	4822 122 33496	100nF 10% 63V
2637	4822 122 33496	100nF 10% 63V
2638	4822 122 33496	100nF 10% 63V
2639	4822 122 33496	100nF 10% 63V
2642▲	4822 122 32442	10nF 50V
2646	4822 122 33496	100nF 10% 63V
2647	4822 124 40255	100µF 20% 63V
2661	4822 124 41596	22µF 20% 50V
2671	4822 122 31727	470pF 2% 63V
2671	4822 122 31775	680pF 2% 63V
2671	4822 122 31727	470pF 2% 63V
2672	4822 122 31727	470pF 2% 63V
2672	4822 122 31775	680pF 2% 63V
2672	4822 122 31727	470pF 2% 63V

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3401	4822 051 10104	100k 2% 0,25W
3402	4822 051 10104	100k 2% 0,25W
3411	4822 051 10104	100k 2% 0,25W
3412	4822 051 10104	100k 2% 0,25W
3413	4822 050 11002	1k 1% 0,4W
3421	4822 051 10473	47k 2% 0,25W
3422▲	4822 051 10103	10k 2% 0,25W
3423	4822 051 10104	100k 2% 0,25W
3424	4822 051 10104	100k 2% 0,25W
3425	4822 051 10473	47k 2% 0,25W
3426▲	4822 053 11821	820Ω 5% 2W
3430	4822 051 10473	47k 2% 0,25W
3431	4822 051 10473	47k 2% 0,25W
3432▲	4822 051 10103	10k 2% 0,25W
3433	4822 051 10104	100k 2% 0,25W
3434	4822 051 10104	100k 2% 0,25W
3435	4822 051 10473	47k 2% 0,25W
3606	4822 051 10478	4Ω7 5% 0,25W
3608	4822 051 10478	4Ω7 5% 0,25W
3609▲	4822 052 10478	4Ω7 5% 0,33W
3610▲	4822 052 10478	4Ω7 5% 0,33W
3612	4822 051 10478	4Ω7 5% 0,25W
3613	4822 051 10478	4Ω7 5% 0,25W
3614	4822 051 10478	4Ω7 5% 0,25W
3615▲	4822 050 24708	4Ω7 1% 0,6W
3630▲	4822 053 10681	680Ω 5% 1W
3632	4822 116 52224	470Ω 5% 0,5W
3633	4822 051 10152	1k5 2% 0,25W
3634	4822 051 10132	1k3 2% 0,25W
3635	4822 051 10339	33Ω 2% 0,25W
3637	4822 116 52224	470Ω 5% 0,5W
3638▲	4822 053 10681	680Ω 5% 1W
3640	4822 051 10473	47k 2% 0,25W
3641	4822 051 10152	1k5 2% 0,25W
3642	4822 051 10132	1k3 2% 0,25W
3643	4822 051 10339	33Ω 2% 0,25W
3645▲	4822 052 10479	47Ω 5% 0,33W
3647▲	4822 052 10479	47Ω 5% 0,33W
3648	4822 051 10681	680Ω 2% 0,25W
3649	4822 051 10243	24k 2% 0,25W
3650	4822 051 10122	1k2 2% 0,25W
3652	4822 051 10331	330Ω 2% 0,25W
3653	4822 051 10471	470Ω 2% 0,25W
3654	4822 051 10331	330Ω 2% 0,25W
3655	4822 051 10471	470Ω 2% 0,25W
3656	4822 051 10331	330Ω 2% 0,25W
3657	4822 051 10471	470Ω 2% 0,25W
3658	4822 051 10331	330Ω 2% 0,25W
3659	4822 051 10471	470Ω 2% 0,25W
3661	4822 051 10104	100k 2% 0,25W
3670	4822 051 10822	8k2 2% 0,25W
3671	4822 051 10822	8k2 2% 0,25W
3672	4822 051 10102	1k 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W
3998	4822 051 10569	56Ω 2% 0,25W

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5612	4822 157 63507	0,18µH
5614	4822 157 63507	0,18µH

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6426	4822 130 80906	LLZ-C7V5
6427	4822 130 80906	LLZ-C7V5
6610	4822 130 80884	LLZ-C5V1
6616	4822 130 80884	LLZ-C5V1
6625	4822 130 80446	LL4148
6630	4822 130 80446	LL4148
6638	4822 130 80446	LL4148
6647	4822 130 80446	LL4148
6661	4822 130 80446	LL4148
6662	4822 130 80446	LL4148

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7401	5322 130 42756	BC857C
7411	5322 130 42756	BC857C
7421	4822 130 42705	BC847
7423	5322 130 42756	BC857C
7425	5322 130 42755	BC847C
7430	4822 130 42705	BC847
7431	4822 130 42705	BC847
7433	5322 130 42756	BC857C
7435	5322 130 42755	BC847C
7607	4822 130 42705	BC847
7608	4822 130 61207	BC848
7610	4822 130 41746	BD825
7611	4822 130 42589	BF370
7612	4822 130 41746	BD825
7613	4822 130 41774	BD826
7614	4822 130 41746	BD825
7615	4822 130 41774	BD826
7616	4822 130 41746	BD825
7617	4822 130 42589	BF370
7618	4822 130 42705	BC847
7619	4822 130 61233	BC857
7620	4822 130 42705	BC847
7621	4822 130 61233	BC857

Scavem filter panel [Y]

4822 265 41372	8P
4822 265 20512	2P green
4822 265 20509	2P grey
4822 265 31085	5P

Various

1042	4822 212 31262	Scavem filter FL2.24 32"
1042	4822 212 31263	Scavem filter FL2.X6
1042	4822 212 31326	Scavem filter FL2.24 28"

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2501▲	4822 122 32442	10nF 50V
2502▲	4822 122 32442	10nF 50V
2503	4822 122 33496	100nF 10% 63V
2504	4822 122 33496	100nF 10% 63V
2505	5322 122 31647	1nF 10% 63V
2507	4822 124 40248	10µF 20% 63V
2508	4822 122 33496	100nF 10% 63V
2510	5322 122 31647	1nF 10% 63V
2512▲	4822 122 32442	10nF 50V
2513	4822 122 33496	100nF 10% 63V
2516	4822 122 31771	390pF 2% 63V
2517	4822 122 32082	4,7pF 5% 50V
2518	4822 122 32082	4,7pF 5% 50V
2526	4822 122 31825	27pF 2% 63V
2527	4822 122 31772	47pF 2% 63V
2528	4822 122 32504	15pF 2% 63V
2529	4822 122 33496	100nF 10% 63V
2531	4822 122 31825	27pF 2% 63V
2532	5322 122 31647	1nF 10% 63V
2538	4822 122 31965	220pF 2% 63V
2541	4822 122 31825	27pF 2% 63V
2542	5322 122 31647	1nF 10% 63V
2548	4822 122 31965	220pF 2% 63V
2550▲	4822 122 32442	10nF 50V
2560	4822 122 31797	22nF 10% 63V
2570	4822 122 31825	27pF 2% 63V

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3400	4822 051 10473	47k 2% 0,25W
3410	4822 051 10473	47k 2% 0,25W
3420	4822 051 10473	47k 2% 0,25W
3500	4822 051 10821	820Ω 2% 0,25W
3500	4822 051 10102	1k 2% 0,25W
3501	4822 051 10109	10Ω 2% 0,25W
3502	4822 051 10221	220Ω 2% 0,25W
3507▲	4822 052 10478	4Ω7 5% 0,33W
3508	4822 051 10331	330Ω 2% 0,25W
3509	4822 051 10331	330Ω 2% 0,25W
3510	4822 051 10471	470Ω 2% 0,25W
3511	4822 051 10108	1Ω 5% 0,25W
3512	4822 051 10101	100Ω 2% 0,25W
3513▲	4822 051 10103	10k 2% 0,25W
3514▲	4822 051 10472	4k7 2% 0,25W
3515	4822 051 10822	8k2 2% 0,25W
3516	4822 051 10101	100Ω 2% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3520	4822 051 10101	100Ω 2% 0,25W
3521	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10471	470Ω 2% 0,25W
3523	4822 051 10471	470Ω 2% 0,25W
3524	4822 051 10241	240Ω 2% 0,25W
3525	4822 051 10182	1k8 2% 0,25W
3526	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 051 10471	470Ω 2% 0,25W
3529▲	4822 051 10472	4k7 2% 0,25W
3530	4822 051 10511	510Ω 2% 0,25W
3531▲	4822 051 10103	10k 2% 0,25W
3532	4822 051 10562	5k6 2% 0,25W
3532	4822 051 10752	7k5 2% 0,25W
3533	4822 051 10471	470Ω 2% 0,25W
3534	4822 051 10332	3k3 2% 0,25W
3535	4822 051 10511	510Ω 2% 0,25W
3536	4822 051 10751	750Ω 2% 0,25W
3537	4822 051 51201	120Ω 1% 0,125W
3538	4822 051 10279	27Ω 2% 0,25W
3540	4822 051 10511	510Ω 2% 0,25W
3541▲	4822 051 10103	10k 2% 0,25W
3542	4822 051 10562	5k6 2% 0,25W
3542	4822 051 10752	7k5 2% 0,25W
3544	4822 051 10332	3k3 2% 0,25W
3545	4822 051 10511	510Ω 2% 0,25W
3546	4822 051 10751	750Ω 2% 0,25W
3547	4822 051 51201	120Ω 1% 0,125W
3548	4822 051 10279	27Ω 2% 0,25W
3551	4822 051 10241	240Ω 2% 0,25W
3560	4822 051 10101	100Ω 2% 0,25W
3561	4822 051 10101	100Ω 2% 0,25W
3570	4822 051 10759	75Ω 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W

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5526	4822
5527	4822
5570	4822

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6530	5322
6540	5322
6550	5322
6559	4822

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7400	5322
7410	5322
7420	5322
7500	5322
7504	4822
7505	4822
7506	4822
7507	4822
7508	4822
7509	4822
7531	4822
7541	4822
7550	5322
7560	4822

DAF par

▲	4822 2
	4822 2
	4822 2

Various

1043	4822 2

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2860▲	4822 1
2861▲	4822 1

▭

3301	4822 1
3302	4822 1

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5860	4822 1

Panoram

4822 2
4822 2
4822 2
4822 2
4822 2

Various

1028	4822 2
1028	4822 2

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2101	4822 1
2102	4822 1
2105	4822 1
2106	4822 1
2110	4822 1
2110	4822 1
2140	4822 1
2141	4822 1

▭

3100	4822 1
3101	4822 1
3102▲	4822 1
3105	4822 1
3106	4822 1
3107	4822 0
3108	4822 0
3109	4822 0
3110▲	4822 1
3111▲	4822 1

Spare parts list / Stükliste / Liste des pièces

avem filter
2.24 32"
avem filter
2.X6
avem filter
2.24 28"

nF 50V
nF 50V
0nF 10% 63V
0nF 10% 63V
F 10% 63V
µF 20% 63V
0nF 10% 63V
F 10% 63V
nF 50V
0nF 10% 63V

0pF 2% 63V
7pF 5% 50V
7pF 5% 50V
pF 2% 63V
pF 2% 63V
pF 2% 63V
0nF 10% 63V
pF 2% 63V
F 10% 63V
0pF 2% 63V

pF 2% 63V
F 10% 63V
0pF 2% 63V
nF 50V
nF 10% 63V
pF 2% 63V

k 2% 0,25W
k 2% 0,25W
k 2% 0,25W
0Ω 2% 0,25W
2% 0,25W
Ω 2% 0,25W
0Ω 2% 0,25W
7 5% 0,33W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
5% 0,25W
0Ω 2% 0,25W
k 2% 0,25W
7 2% 0,25W
2 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
3 2% 0,25W
0Ω 2% 0,25W
2% 0,25W
0Ω 2% 0,25W
7 2% 0,25W
0Ω 2% 0,25W

k 2% 0,25W
6 2% 0,25W
5 2% 0,25W
0Ω 2% 0,25W
3 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 1% 0,125W
2 2% 0,25W
0Ω 2% 0,25W

2% 0,25W
6 2% 0,25W
5 2% 0,25W
6 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 1% 0,125W
2 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
2 2% 0,25W
2 2% 0,25W
2 2% 0,25W

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5526	4822 157 53066	15µH 10%
5527	4822 157 60123	6,8µH 10%
5570	4822 157 60123	6,8µH 10%

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6530	5322 130 34337	BAV99
6540	5322 130 34337	BAV99
6550	5322 130 34337	BAV99
6559	4822 130 80884	LLZ-C5V1

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7400	5322 130 42755	BC847C
7410	5322 130 42755	BC847C
7420	5322 130 42755	BC847C
7500	5322 130 42012	BC858
7504	4822 209 30404	NE592/N8
7505	4822 130 61207	BC848
7506	4822 130 61207	BC848
7507	4822 130 61207	BC848
7508	4822 209 73852	PMBT2369
7509	4822 209 73852	PMBT2369
7531	4822 130 61207	BC848
7541	4822 130 61207	BC848
7550	5322 130 60646	BSR57
7560	4822 209 63896	PCF8574AP

DAF panel [B]

▲	4822 265 40596	2P male
	4822 267 41018	2P red
	4822 265 20509	2P grey

Various

1043	4822 212 31261	DAF panel

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2860▲	4822 126 12267	470pF 10% 2kV
2861▲	4822 126 12239	560pF 10% 2kV

-▭-

3301	4822 116 21221	1M A 385V VDR
3302	4822 116 21221	1M A 385V VDR

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5860	4822 148 81242	Transf. DAF

Panorama panel [B]

	4822 265 20509	2P grey
	4822 267 41018	2P red
	4822 267 41144	3P grey
	4822 267 41142	3P
	4822 267 41143	3P

Various

1028	4822 212 31324	Panoramic view 32"
1028	4822 212 31325	Panoramic view 28"

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2101	4822 121 51563	560nF 5% 250V
2102	4822 121 51563	560nF 5% 250V
2105	4822 124 80341	1µF 20% 160V
2106	4822 124 80341	1µF 20% 160V
2110	4822 121 51563	560nF 5% 250V
2110	4822 121 70281	510nF 5% 400V
2140	4822 126 12784	22nF 20% 100V
2141	4822 124 40255	100µF 20% 63V

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3100	4822 116 52258	220k 5% 0,5W
3101	4822 116 52274	36k 5% 0,5W
3102▲	4822 116 52215	220Ω 5% 0,5W
3105	4822 116 52267	30k 5% 0,5W
3106	4822 116 52267	30k 5% 0,5W
3107	4822 052 10332	3k3 5% 0,33W
3108	4822 052 10332	3k3 5% 0,33W
3109	4822 052 10332	3k3 5% 0,33W
3110▲	4822 116 52197	56Ω 5% 0,5W
3111▲	4822 116 52197	56Ω 5% 0,5W
3115	4822 116 80176	1Ω 5% 0,5W
3121	4822 116 52296	6k8 5% 0,5W
3122	4822 116 52296	6k8 5% 0,5W
3140	4822 116 52175	100Ω 5% 0,5W
3141	4822 116 52175	100Ω 5% 0,5W
3142▲	4822 116 52283	4k7 5% 0,5W
3143▲	4822 116 52256	2k2 5% 0,5W
3144▲	4822 116 52283	4k7 5% 0,5W
3145	4822 116 52296	6k8 5% 0,5W
3146	4822 116 52296	6k8 5% 0,5W
3148	4822 050 11002	1k 1% 0,4W
3149	4822 116 52175	100Ω 5% 0,5W
3198	4822 051 10333	33k 2% 0,25W
3198	4822 116 52264	27k 5% 0,5W
3199	4822 051 10333	33k 2% 0,25W
3199	4822 116 52264	27k 5% 0,5W

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5110	4822 157 63256	Coil CU15

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6100▲	4822 130 32896	BYD33M
6101▲	4822 130 32896	BYD33M
6103	4822 130 34499	BZX79-C20
6120	4822 130 34233	BZX79-C5V1

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7100	4822 130 63364	IRFI640G
7140	4822 209 63896	PCF8574AP
7141	4822 130 44257	BC547
7142▲	4822 209 32126	SOC1012T

Picture tube panel [E]

	4822 265 20509	2P male grey
▲	4822 265 40596	2P male Vg2
	4822 267 41146	6P male
	4822 267 60379	7P male

Various

1030	4822 212 31321	PTP 29"
1030	4822 212 31385	PTP 25"-28"-33"
1030	4822 212 31322	PTP 28" FL2.24
1030	4822 212 31323	PTP 32" FL2.24
	4822 255 70261	Socket for CRT 25"-28"-33"
	4822 267 51225	Socket for CRT 29"
	4822 267 51249	Socket for CRT 28" FL2.24
	4822 267 51248	Socket for CRT 32" FL2.24
	4822 492 70788	Spring fix IC
	4822 404 31199	Bracket

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2700	4822 126 11824	100pF 10% 1kV
2701	4822 122 32139	12pF 2% 63V
2701	4822 122 32507	6,8pF 5% 50V
2702	4822 122 31784	4,7nF 10% 50V
2703	4822 121 42068	33 nF 10% 400V
2704	4822 122 31746	1nF 2% 63V
2705▲	4822 124 40433	47µF 20% 25V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2707	4822 121 70093	33nF 5% 2kV
2708	4822 122 31773	560pF 2% 63V
2708	5322 122 31842	330pF 2% 63V
2709	4822 124 80091	4,7µF 20% 250V
2710	4822 122 31797	22nF 10% 63V
2711	4822 122 31971	10pF 2% 63V
2711	4822 122 32507	6,8pF 5% 50V
2712	4822 122 31784	4,7nF 10% 50V
2713	4822 121 42068	33 nF 10% 400V
2714	4822 122 31746	1nF 2% 63V
2715	4822 121 42068	33 nF 10% 400V
2720	4822 122 31825	27pF 2% 63V
2721	4822 122 31971	10pF 2% 63V
2721	4822 122 32504	15pF 2% 63V
2722	4822 122 31784	4,7nF 10% 50V
2724	4822 122 31746	1nF 2% 63V
2725	4822 122 31774	56pF 2% 63V
2726	4822 122 31774	56pF 2% 63V
2727	4822 122 31774	56pF 2% 63V
2729	4822 121 41156	68nF 10% 250V

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3700	4822 051 20222	2k2 5% 0,1W
3701▲	4822 052 11108	1Ω 5% 0,5W
3701	4822 052 11338	3Ω3 5% 0,5W
3701	4822 052 11398	3Ω9 5% 0,5W
3702	4822 051 10201	200Ω 2% 0,25W
3703▲	4822 052 11108	1Ω 5% 0,5W
3703	4822 052 11338	3Ω3 5% 0,5W
3703	4822 052 11398	3Ω9 5% 0,5W
3704	4822 051 10222	2k2 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W
3705▲	4822 051 10242	2k4 2% 0,25W
3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21204	120k 1% 0,6W
3706	4822 050 21504	150k 1% 0,6W
3707	4822 051 10008	0Ω 5% 0,25W
3708	4822 111 50579	680Ω 10% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3709	4822 051 10154	150k 2% 0,25W
3710	4822 051 10333	33k 2% 0,25W
3710	4822 051 10822	8k2 2% 0,25W
3712	4822 051 10201	200Ω 2% 0,25W
3714	4822 051 10272	2k7 2% 0,25W
3714	4822 051 20222	2k2 5% 0,1W
3715▲	4822 051 10242	2k4 2% 0,25W
3715	4822 051 10332	3k3 2% 0,25W
3716	4822 050 21204	120k 1% 0,6W
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50579	680Ω 10% 0,5W
3719	4822 051 10333	33k 2% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3722	4822 051 10201	200Ω 2% 0,25W
3723	4822 050 11002	1k 1% 0,4W
3724	4822 051 10272	2k7 2% 0,25W
3724	4822 051 20222	2k2 5% 0,1W
3725▲	4822 051 10242	2k4 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W
3726	4822 050 21204	120k 1% 0,6W
3726	4822 050 21504	150k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 41572	220Ω 10% 0,5W
3728	4822 111 50579	680Ω 10% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731▲	4822 052 10279	27Ω 5% 0,33W
3732▲	4822 052 10189	18Ω 5% 0,33W
3733	4822 051 10008	0Ω 5% 0,25W
3734	4822 050 21604	160k 1% 0,6W
3735▲	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10123	12k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 053 12823	82k 5% 3W
3739	4822 101 11185	47kΩ 10%
3740	4822 050 21604	160k 1% 0,6W
3741	4822 116 52221	360Ω 5% 0,5W
3742	4822 116 52221	360Ω 5% 0,5W
3743	4822 116 52221	360Ω 5% 0,5W
3744▲	4822 052 10229	22Ω 5% 0,33W
3750▲	4822 051 10103	10k 2% 0,25W
3750	4822 051 10223	22k 2% 0,25W
3750	4822 051 10563	56k 2% 0,25W
3750	4822 051 10823	82k 2% 0,25W
3998	4822 051 10223	22k 2% 0,25W
3998	4822 051 10823	82k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5700	4822 157 70635	33µH 7,5%
5700	4822 157 70636	82µH 5%
5700	4822 157 70854	39µH 5%
5703	4822 157 70635	33µH 7,5%

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6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6708▲	4822 130 32896	BYD33M
6709	4822 130 82969	BZD23-C24
6710	4822 130 30842	BAV21
6711	4822 130 30842	BAV21
6712	4822 130 30842	BAV21

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7704	4822 130 60373	BC856B
7705	4822 209 30417	TDA6111Q/N2
7706	4822 209 30417	TDA6111Q/N2
7707	4822 209 30417	TDA6111Q/N2

Euro AV3 panel [R]

	4822 265 31174	6P grey

Various

	4822 267 51335	Socket scart
1022	4822 212 31256	Scart panel

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2301	4822 121 42408	220nF 5% 63V
2304	4822 121 70438	330pF 5% 100V
2306	4822 121 70438	330pF 5% 100V

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3304▲	4822 050 21002	1k 1% 0,6W
3306▲	4822 050 21002	1k 1% 0,6W

Euro AV3 interface panel [P]

	4822 265 51371	Strip 29P
	4822 265 31174	6P grey

Various

1255	4822 212 31257	Scart interface panel

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2005	4822 124 41576	2,2µF 20% 50V
2007	4822 124 41576	2,2µF 20% 50V
2031	4822 122 31971	10pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2042	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2044	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 31947	100nF 20% 63V
2048	4822 122 32927	220nF 20% 50V
2049	4822 122 32927	220nF 20% 50V
2217	4822 124 22606	68µF 20% 16V
2218	4822 124 22606	68µF 20% 16V
2219	4822 124 22606	68µF 20% 16V

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3003	4822 051 10223	22k 2% 0,25W
3005	4822 051 10223	22k 2% 0,25W
3013	4822 116 52224	470Ω 5% 0,5W
3015▲	4822 051 10103	10k 2% 0,25W
3016	4822 051 10271	270Ω 2% 0,25W
3017	4822 051 10271	270Ω 2% 0,25W
3020▲	4822 051 10103	10k 2% 0,25W
3021▲	4822 051 10103	10k 2% 0,25W
3022	4822 051 10271	270Ω 2% 0,25W
3023▲	4822 116 52215	220Ω 5% 0,5W
3025▲	4822 051 10103	10k 2% 0,25W
3026	4822 051 10271	270Ω 2% 0,25W
3027	4822 051 10271	270Ω 2% 0,25W
3030▲	4822 051 10103	10k 2% 0,25W
3031	4822 051 10271	270Ω 2% 0,25W
3032	4822 051 10271	270Ω 2% 0,25W
3040	4822 116 52238	12k 5% 0,5W
3041	4822 116 52238	12k 5% 0,5W
3042	4822 116 52175	100Ω 5% 0,5W
3047▲	4822 116 52283	4k7 5% 0,5W
3048	4822 051 10331	330Ω 2% 0,25W
3210	4822 116 81217	2Ω2 5% 0,3W
3211	4822 116 83584	5Ω6 5% 0,3W
3212▲	4822 116 81193	15Ω 5% 0,3W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5031	4822 152 20677	10µH 10%

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6040	4822 130 80446	LL4148
6041	4822 130 80446	LL4148

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7015	4822 130 61207	BC848
7020	4822 130 61207	BC848
7025	4822 130 61207	BC848
7030	4822 130 61207	BC848
7040	4822 209 63292	TEA6414
7200	4822 209 10263	4052B

Spare parts list / Stükliste / Liste des pièces

LFR-box [L] [M]

4822 265 61259	PLCC socket 68P
4822 265 41328	10P female

Various

1750	4822 212 31229	LFR-box FLX.14/16
1750	4822 212 31233	LFR-box FLX.24/26
1750	4822 212 31313	LFR-box FL2.24 /58
1750	4822 212 31314	LFR-box FL2.24 /62
1001	4822 242 72572	Crystal 12 MHz
1002	4822 242 71417	Crystal 13,875 MHz

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2000	4822 122 33496	100nF 10% 63V
2001	*4822 122 33496*	*100nF 10% 63V*
2002	4822 122 33496	100nF 10% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 122 33496	100nF 10% 63V
2005	4822 122 33496	100nF 10% 63V
2006	4822 124 40731	330µF 20% 6,3V
2007	4822 122 33496	100nF 10% 63V
2010	4822 122 33496	100nF 10% 63V
2011	4822 122 33496	100nF 10% 63V
2012	4822 122 33496	100nF 10% 63V
2013	4822 122 33496	100nF 10% 63V
2014	4822 122 33496	100nF 10% 63V
2015	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2017	4822 122 33496	100nF 10% 63V
2018	4822 122 33496	100nF 10% 63V
2022	4822 122 33496	100nF 10% 63V
2023	4822 122 33496	100nF 10% 63V
2026	4822 122 32083	8,2pF 5% 50V
2027	4822 122 31961	68pF 2% 63V
2028	4822 122 31772	47pF 2% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 32083	8,2pF 5% 50V
2031	4822 122 31767	150pF 2% 63V
2032	4822 122 31772	47pF 2% 63V
2033	4822 122 32083	8,2pF 5% 50V
2034	4822 122 33496	100nF 10% 63V
2035	4822 122 31767	150pF 2% 63V
2036	4822 122 31772	47pF 2% 63V
2037	4822 122 31765	100pF 2% 63V
2038	4822 122 31765	100pF 2% 63V
2039	4822 124 41643	100µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 31825	27pF 2% 63V
2043▲	4822 122 32442	10nF 50V
2044▲	4822 122 32442	10nF 50V
2045	4822 124 41576	2,2µF 20% 50V
2046	4822 124 40248	10µF 20% 63V
2047	4822 122 32504	15pF 2% 63V
2048	4822 124 41576	2,2µF 20% 50V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 41997	470µF 10V
2051	4822 122 32504	15pF 2% 63V
2052	4822 122 32142	270pF 2% 63V
2053	4822 122 32891	68nF 10% 63V
2054	4822 122 32504	15pF 2% 63V
2055	5322 122 31647	1nF 10% 63V
2056	4822 122 31727	470pF 2% 63V
2057	4822 122 31797	22nF 10% 63V
2058	4822 122 32142	270pF 2% 63V
2059	4822 122 31765	100pF 2% 63V
2060	4822 122 31825	27pF 2% 63V
2061	4822 122 31825	27pF 2% 63V
2062	4822 122 31825	27pF 2% 63V
2063	4822 122 31772	47pF 2% 63V
2064	4822 124 41643	100µF 20% 16V
2065	4822 122 33496	100nF 10% 63V
2066	*4822 122 33496*	*100nF 10% 63V*
2067	4822 122 33496	100nF 10% 63V
2068	4822 122 33496	100nF 10% 63V
2069	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 124 41643	100µF 20% 16V
2072	5322 122 31647	1nF 10% 63V
2073	4822 122 31839	82pF 2% 63V
2074	4822 122 31981	33nF 5% 50V
2075	4822 122 33496	100nF 10% 63V
2076	5322 122 31842	330pF 2% 63V
2077	4822 124 41576	2,2µF 20% 50V
2078	4822 122 33496	100nF 10% 63V
2079	4822 121 42937	2,7nF 1% 250V
2080	5322 124 41431	22µF 20% 35V
2081▲	4822 124 40246	4,7µF 20% 63V
2082	4822 122 31772	47pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 33496	100nF 10% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31825	27pF 2% 63V
2087	4822 122 31825	27pF 2% 63V
2088	*4822 122 31797*	*22nF 10% 63V*
2090	4822 122 31772	47pF 2% 63V
2091	4822 122 31746	1nF 2% 63V
2092▲	4822 124 40433	47µF 20% 25V
2093	4822 124 41997	470µF 10V
2094	4822 122 33496	100nF 10% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31746	1nF 2% 63V
2098	4822 124 22606	68µF 20% 16V
2099	4822 122 33496	100nF 10% 63V
2100	4822 122 33496	100nF 10% 63V
2102	4822 122 31644	2,2nF 10% 63V
2103	4822 124 41097	220µF 20% 16V
2105	4822 122 33496	100nF 10% 63V
2106	4822 124 41643	100µF 20% 16V
2107	4822 122 33496	100nF 10% 63V
2108	4822 122 31765	100pF 2% 63V
2109	4822 122 32506	5,6pF 5% 50V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31842	330pF 2% 63V
2112	4822 122 31981	33nF 5% 50V
2113	4822 122 31644	2,2nF 10% 63V
2114	4822 126 11492	220nF 10% 50V
2115	4822 126 11492	220nF 10% 50V
2116	4822 122 31768	180pF 2% 63V
2117▲	4822 122 32442	10nF 50V
2118	4822 122 33496	100nF 10% 63V
2119	4822 122 33496	100nF 10% 63V
2120	4822 122 31965	220pF 2% 63V
2121	4822 122 31965	220pF 2% 63V
2122	5322 122 31842	330pF 2% 63V
2123	4822 122 33496	100nF 10% 63V
2124	4822 122 31767	150pF 2% 63V
2125	4822 122 33498	2,7nF 10% 63V
2126	4822 122 33496	100nF 10% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31767	150pF 2% 63V
2129	4822 122 33496	100nF 10% 63V
2130	4822 122 31771	390pF 2% 63V
2131	*4822 122 31825*	*27pF 2% 63V*
2132	5322 122 31842	330pF 2% 63V
2133	4822 122 31825	27pF 2% 63V
2134	4822 122 31771	390pF 2% 63V
2136	4822 122 31825	27pF 2% 63V
2150▲	4822 124 40433	47µF 20% 25V
2151	4822 122 31772	47pF 2% 63V
2152	4822 122 33496	100nF 10% 63V
2153	4822 122 31772	47pF 2% 63V
2160	4822 122 33498	2,7nF 10% 63V
2161	4822 122 31825	27pF 2% 63V
2162	4822 122 31971	10pF 2% 63V
2163	4822 126 11492	220nF 10% 50V
2164	4822 122 31971	10pF 2% 63V
2165	4822 126 10324	33pF 2% 63V
2166	4822 122 31772	47pF 2% 63V
2167	4822 122 31772	47pF 2% 63V
2168	4822 126 10324	33pF 2% 63V
2169	4822 124 40849	330µF 20% 16V
2170	4822 122 32139	12pF 2% 63V
2172	4822 122 31839	82pF 2% 63V
2175	4822 122 33496	100nF 10% 63V
2179	4822 122 33496	100nF 10% 63V
2180	4822 122 31797	22nF 10% 63V
2181	4822 122 31772	47pF 2% 63V
2184	4822 122 32139	12pF 2% 63V
2185▲	4822 124 40433	47µF 20% 25V
2186▲	4822 124 40433	47µF 20% 25V
2187	4822 124 40731	330µF 20% 6,3V
2188	4822 122 31772	47pF 2% 63V
2190	4822 126 11492	220nF 10% 50V

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3000	4822 051 10162	1k6 2% 0,25W
3001▲	4822 111 41424	22Ω 5% 0,3W
3002▲	4822 051 10242	2k4 2% 0,25W
3003	4822 051 10682	6k8 2% 0,25W
3004▲	4822 051 10472	4k7 2% 0,25W
3006▲	4822 050 24708	4Ω7 1% 0,6W
3007	4822 051 10209	20Ω 2% 0,25W
3008	4822 051 10008	0Ω 5% 0,25W
3009	4822 051 10829	82Ω 2% 0,25W
3011	4822 051 10101	100Ω 2% 0,25W
3012	4822 051 10339	33Ω 2% 0,25W
3013	4822 051 52201	220Ω 1% 0,125W
3014	4822 051 10101	100Ω 2% 0,25W
3016	4822 051 10759	75Ω 2% 0,25W
3017	4822 051 53601	360Ω 1% 0,125W
3019	4822 111 41423	18Ω 5% 0,3W
3020	4822 051 10181	180Ω 2% 0,25W
3021	4822 051 10101	100Ω 2% 0,25W
3022	4822 051 10101	100Ω 2% 0,25W
3023	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 10473	47k 2% 0,25W
3025	*4822 051 10102*	*1k 2% 0,25W*
3026	4822 051 10181	180Ω 2% 0,25W
3027	4822 051 10132	1k3 2% 0,25W
3028	4822 051 10221	220Ω 2% 0,25W
3029	4822 051 10683	68k 2% 0,25W
3030	4822 051 10681	680Ω 2% 0,25W
3031	4822 051 10561	560Ω 2% 0,25W
3032	4822 051 10561	560Ω 2% 0,25W
3033	4822 051 10561	560Ω 2% 0,25W
3034	4822 051 10759	75Ω 2% 0,25W
3035	4822 051 20222	2k2 5% 0,1W
3036	4822 051 10221	220Ω 2% 0,25W
3037▲	4822 111 41424	22Ω 5% 0,3W
3038▲	4822 051 10103	10k 2% 0,25W
3039	4822 051 10683	68k 2% 0,25W
3040	4822 051 10104	100k 2% 0,25W
3041	4822 051 10561	560Ω 2% 0,25W
3042	4822 051 10102	1k 2% 0,25W
3043▲	4822 051 10103	10k 2% 0,25W
3044▲	4822 052 10279	27Ω 5% 0,33W
3045	4822 051 10162	1k6 2% 0,25W
3046	4822 051 10272	2k7 2% 0,25W
3047	4822 051 10332	3k3 2% 0,25W
3048	4822 051 10562	5k6 2% 0,25W
3049	4822 051 10229	22Ω 2% 0,25W
3050	4822 051 10122	1k2 2% 0,25W
3051	4822 051 10303	30k 2% 0,25W
3052	4822 051 10513	51k 2% 0,25W
3053	4822 051 10821	820Ω 2% 0,25W
3054	4822 100 20166	10k 30% lin
3055	4822 051 10181	180Ω 2% 0,25W
3055	4822 051 10221	220Ω 2% 0,25W
3056▲	4822 051 10472	4k7 2% 0,25W
3057▲	4822 051 10472	4k7 2% 0,25W
3058▲	4822 051 10472	4k7 2% 0,25W
3060	4822 051 10123	12k 2% 0,25W
3061	4822 051 10622	6k2 2% 0,25W
3062▲	4822 051 10103	10k 2% 0,25W
3063	4822 051 10471	470Ω 2% 0,25W
3064	4822 051 10104	100k 2% 0,25W
3065	*4822 051 10223*	*22k 2% 0,25W*
3066▲	4822 051 10242	2k4 2% 0,25W
3067	4822 051 10109	10Ω 2% 0,25W
3068▲	4822 051 10103	10k 2% 0,25W
3071	4822 051 10008	0Ω 5% 0,25W
3074▲	4822 051 10242	2k4 2% 0,25W
3075▲	4822 051 10103	10k 2% 0,25W
3076	4822 051 10221	220Ω 2% 0,25W
3078	4822 051 10223	22k 2% 0,25W
3079	4822 051 10471	470Ω 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 051 20222	2k2 5% 0,1W
3084	4822 051 10473	47k 2% 0,25W
3085▲	4822 116 81193	15Ω 5% 0,3W
3086	4822 051 10473	47k 2% 0,25W
3087	4822 051 10151	150Ω 2% 0,25W
3087	4822 051 10471	470Ω 2% 0,25W
3089	4822 116 81192	12Ω 5% 0,3W
3090	4822 051 10102	1k 2% 0,25W
3091	4822 051 51201	120Ω 1% 0,125W
3092	4822 051 10224	220k 2% 0,25W
3093	4822 051 10104	100k 2% 0,25W
3094	4822 051 10124	120k 2% 0,25W
3095	4822 051 10223	22k 2% 0,25W
3096	4822 051 10479	47Ω 2% 0,25W
3097	4822 051 10223	22k 2% 0,25W
3098	4822 051 10151	150Ω 2% 0,25W
3099	4822 051 10272	2k7 2% 0,25W
3100	4822 051 10221	220Ω 2% 0,25W
3101	4822 051 10122	1k2 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 53301	330Ω 1% 0,125W
3105▲	4822 051 10472	4k7 2% 0,25W
3106	4822 051 10152	1k5 2% 0,25W
3107	4822 051 52201	220Ω 1% 0,125W
3108▲	4822 051 10472	4k7 2% 0,25W
3109	4822 051 10109	10Ω 2% 0,25W
3110	4822 051 10681	680Ω 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 10181	180Ω 2% 0,25W
3113	4822 051 10152	1k5 2% 0,25W
3114	4822 051 53601	360Ω 1% 0,125W
3115	4822 051 10101	100Ω 2% 0,25W
3116▲	4822 051 10472	4k7 2% 0,25W
3117	4822 051 10102	1k 2% 0,25W
3118	4822 051 56201	620Ω 1% 0,125W
3119▲	4822 051 10103	10k 2% 0,25W
3120	4822 051 10271	270Ω 2% 0,25W
3121	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10221	220Ω 2% 0,25W
3125	4822 051 52701	270Ω 1% 0,125W
3127	4822 051 59101	910Ω 1% 0,125W
3128	4822 051 10271	270Ω 2% 0,25W
3160	4822 051 10562	5k6 2% 0,25W
3161	4822 051 20222	2k2 5% 0,1W
3162	*4822 051 10102*	*1k 2% 0,25W*
3163	4822 051 20222	2k2 5% 0,1W
3166	4822 051 10569	56Ω 2% 0,25W
3167	4822 051 53301	330Ω 1% 0,125W
3168	4822 051 10471	470Ω 2% 0,25W
3169▲	4822 051 10103	10k 2% 0,25W
3176	4822 051 10221	220Ω 2% 0,25W
3180	4822 051 10101	100Ω 2% 0,25W
3181	4822 051 10101	100Ω 2% 0,25W
3182	4822 051 10102	1k 2% 0,25W
3183	4822 051 10471	470Ω 2% 0,25W
3184	4822 051 10101	100Ω 2% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3202	4822 051 10102	1k 2% 0,25W
3203	4822 051 10102	1k 2% 0,25W
3227	4822 051 10151	150Ω 2% 0,25W
3228	4822 051 10182	1k8 2% 0,25W
3300	4822 051 10339	33Ω 2% 0,25W
3300	4822 051 10279	27Ω 2% 0,25W
3300	4822 051 10569	56Ω 2% 0,25W
3300	4822 051 10471	470Ω 2% 0,25W
3300	4822 051 10561	560Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5000	4822 157 50961	22µH 10%
5001	4822 157 60147	2,2µH
5002	4822 157 60147	2,2µH
5003	4822 157 60147	2,2µH
5004	4822 157 60147	2,2µH
5005	4822 157 60147	2,2µH
5006	4822 157 60147	2,2µH
5007	4822 157 60147	2,2µH
5008	4822 157 52403	3,3µH 10%
5009	4822 157 60147	2,2µH
5010	4822 157 52403	3,3µH 10%
5011	4822 157 60147	2,2µH
5012	4822 157 52403	3,3µH 10%
5013	4822 157 60147	2,2µH
5014	4822 157 52224	15µH 10%
5015	4822 157 60147	2,2µH
5016	4822 157 52138	27µH 10%
5017	4822 157 60147	2,2µH
5018	4822 157 60147	2,2µH
5019	4822 157 52403	3,3µH 10%
5020	4822 157 60147	2,2µH
5021	4822 157 60147	2,2µH
5022	*4822 157 60498*	*56µH 10%*
5023	4822 156 11145	1,0µH 6%
5025	4822 156 11143	4,3µH 6%
5026	4822 157 60147	2,2µH
5027	4822 156 11144	3,3µH 6%
5028	4822 157 60147	2,2µH
5030	4822 157 63834	3,9µH 10%
5031	4822 157 63834	3,9µH 10%
5032	*4822 157 63834*	*3,9µH 10%*
5033	4822 152 20677	10µH 10%
5034	4822 157 60147	2,2µH
5035	4822 157 53634	5,6µH 10%

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6000	4822 130 80446	LL4148
6001	4822 130 80884	LLZ-C5V1
6002	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6005	4822 130 80446	LL4148
6006	4822 130 31253	BZX55-C2V4
6007	4822 130 80888	BA682
6008	4822 130 80888	BA682
6009	5322 130 80119	BBY40
6010	5322 130 80119	BBY40
6013	4822 130 80954	LLZ-C5V6
6014	4822 130 80446	LL4148

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7000	5322 130 42136	BC848C
7010	5322 130 42136	BC848C
7011	5322 130 41983	BC858B
7012▲	5322 130 41982	BC848B
7013	4822 130 61207	BC848
7014	5322 130 41983	BC858B
7022▲	5322 130 41982	BC848B
7023	4822 130 42513	BC858C
7024	5322 130 42012	BC858
7025	5322 130 41983	BC858B
7026▲	5322 130 4	
7027	4822 130 6	
7029▲	5322 130 4	
7030	4822 130 4	
7034	4822 130 4	
7035	4822 130 4	
7036	5322 130 4	
7037	4822 130 6	
7038	5322 130 4	
7039	5322 130 4	
7040	4822 130 4	
7042	5322 130 4	
7060	5322 130 4	
7120	4822 209 3	
7201	4822 209 3	
7202	4822 209 3	
7203	4822 209 3	
7204	4822 209 6	
7205	4822 209 6	
7206	4822 209 6	
7207	4822 209 3	
7208	4822 209 3	
7209	4822 209 3	
7210	4822 209 7	
7214	4822 209 6	
7215	4822 209 3	
7215	4822 209 3	
7215	4822 209 3	
7216	4822 209 6	
7217	4822 209 6	
7218	5322 209 6	
7219	4822 209 6	
7221▲	4822 209 8	
7231	4822 209 7	
7232	4822 209 5	
7244	*5322 209 6*	
7261	4822 209 7	

ECO-box [L

4822 255 4
4822 265 4

Various

1750	4822 212 3
1064	4822 242 7
1162	4822 242 7

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2001	4822 122 3
2002	4822 122 3
2004	4822 122 3
2005	4822 122 3
2006	4822 122 3
2007	4822 122 3
2008	4822 122 3
2009	4822 122 3
2010	*4822 124 2*
2011	4822 122 3
2012	4822 124 4
2013	4822 122 3
2016	4822 122 3
2019	4822 122 3
2024	4822 126 1
2025▲	4822 124 4
2026	4822 122 3
2027▲	4822 124 4
2028	4822 122 3
2029	4822 122 3
2030	4822 122 3
2031	4822 124 4
2032	4822 122 3
2033	4822 124 4
2034	4822 122 3
2035▲	4822 124 4
2036	4822 124 41
2037	4822 122 3
2038	4822 122 3
2040	4822 122 3
2041	4822 122 3
2042	4822 122 3
2046	4822 122 31
2047	4822 122 31
2048	4822 122 32
2049	4822 122 31
2050	4822 122 3
2051	4822 122 31
2052	4822 122 32
2053	4822 122 3

% 0,25W
2% 0,25W
1% 0,125W
1% 0,125W
2% 0,25W
% 0,25W
% 0,1W
0,25W
% 0,1W
% 0,25W
1% 0,125W
2% 0,25W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
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2% 0,25W
% 0,25W

10%
10%
10%
10%
10%
10%
10%
10%
6%
6%
6%
10%
10%
10%
10%
10%

48
C5V1
48
35
48
48
55-C2V4
32
32
40
40
C5V6
48

48C
48C
58B
48B
48
58B
48B
58C
58
58B

7026▲	5322 130 41982	BC848B
7027	4822 130 61207	BC848
7029▲	5322 130 41982	BC848B
7030	4822 130 40938	BC548
7034	4822 130 42131	BF550
7035	4822 130 42513	BC858C
7036	5322 130 42136	BC848C
7037	4822 130 61207	BC848
7038	5322 130 42136	BC848C
7039	5322 130 42136	BC848C
7040	4822 130 42131	BF550
7042	5322 130 42136	BC848C
7060	5322 130 42136	BC848C
7120	4822 209 33289	P83C652FFP/050 V34D
7201	4822 209 32483	MSM514221A
7202	4822 209 32483	MSM514221A
7203	4822 209 32483	MSM514221A
7204	4822 209 60525	TMS4C1050-3N
7205	4822 209 60525	TMS4C1050-3N
7206	4822 209 60525	TMS4C1050-3N
7207	4822 209 31056	SDA9205-2
7208	4822 209 31057	UPD65640G-011-3B9
7209	4822 209 31059	SAA7158
7210	4822 209 72042	MC78L05ACP
7214	4822 209 63645	SAA5231/V7
7215	4822 209 31851	SAA9042P/A/MOB
7215	4822 209 33287	SAA9042P/B/MOB /58
7215	4822 209 33288	SAA9042P/C/MOB /62
7216	4822 209 63423	TDA2579B/N2
7217	4822 209 63644	SDA9086-3
7218	5322 209 61004	N74F74D
7219	4822 209 63892	UPD65636C-040
7221▲	4822 209 83163	LM833N
7231	4822 209 72042	MC78L05ACP
7232	4822 209 52359	HYB514256B-70
7244	5322 209 61004	N74F74D
7261	4822 209 72042	MC78L05ACP

ECO-box [L’]

4822 255 41312	PLCC socket 68P
4822 265 41328	10P female

Various

1750	4822 212 31392	ECO-box FL4.27
1064	4822 242 72572	Crystal 12 MHz
1162	4822 242 71417	Crystal 13,875

⊣⊢

2001	4822 122 31768	180pF 2% 63V
2002	4822 122 32504	15pF 2% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31971	10pF 2% 63V
2006	4822 122 32765	820pF 2% 63V
2007	4822 122 31768	180pF 2% 63V
2008	4822 122 31971	10pF 2% 63V
2009	4822 122 32765	820pF 2% 63V
2010	4822 124 22347	47µF 20% 50V
2011	4822 122 33496	100nF 10% 63V
2012	4822 124 41643	100µF 20% 16V
2013	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2019	4822 122 33496	100nF 10% 63V
2024	4822 126 11492	220nF 10% 50V
2025▲	4822 124 40196	220µF 20% 16V
2026	4822 122 33496	100nF 10% 63V
2027▲	4822 124 40196	220µF 20% 16V
2028	4822 122 33496	100nF 10% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40248	10µF 20% 63V
2032	4822 122 33496	100nF 10% 63V
2033	4822 124 40248	10µF 20% 63V
2034	4822 122 33496	100nF 10% 63V
2035▲	4822 124 40196	220µF 20% 16V
2036	4822 124 41643	100µF 20% 16V
2037	4822 122 33496	100nF 10% 63V
2038	4822 122 33496	100nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 33496	100nF 10% 63V
2042	4822 122 33496	100nF 10% 63V
2046	4822 122 31765	100pF 2% 63V
2047	4822 122 31972	39pF 2% 63V
2048	4822 122 32142	270pF 2% 63V
2049	4822 122 31769	18pF 2% 63V
2050	4822 122 31971	10pF 2% 63V
2051	4822 122 31767	150pF 2% 63V
2052	4822 122 32083	8,2pF 5% 50V
2053	4822 122 31772	47pF 2% 63V
2055	4822 122 32083	8,2pF 5% 50V
2056	4822 122 31767	150pF 2% 63V
2057	4822 122 31772	47pF 2% 63V
2058	4822 122 33496	100nF 10% 63V
2060	4822 122 33496	100nF 10% 63V
2061	4822 122 33496	100nF 10% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33496	100nF 10% 63V
2064	4822 122 31825	27pF 2% 63V
2065	4822 122 31971	10pF 2% 63V
2066	4822 122 33496	100nF 10% 63V
2070	4822 122 31765	100pF 2% 63V
2071	4822 122 31765	100pF 2% 63V
2072	4822 122 31765	100pF 2% 63V
2073	5322 122 33446	3,3nF 10% 63V
2074	4822 122 31765	100pF 2% 63V
2075	4822 122 31765	100pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 31765	100pF 2% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31765	100pF 2% 63V
2090	4822 122 33496	100nF 10% 63V
2091	4822 122 33498	2,7nF 10% 63V
2092	4822 122 33496	100nF 10% 63V
2094	4822 122 31765	100pF 2% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31644	2,2nF 10% 63V
2100▲	4822 124 40196	220µF 20% 16V
2101	4822 122 33496	100nF 10% 63V
2105	4822 122 33496	100nF 10% 63V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31647	1nF 10% 63V
2112	4822 122 31839	82pF 2% 63V
2113	4822 122 33496	100nF 10% 63V
2114	4822 122 33496	100nF 10% 63V
2118	4822 121 42937	2,7nF 1% 250V
2122	4822 122 31765	100pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 31746	1nF 2% 63V
2126	4822 122 31746	1nF 2% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31765	100pF 2% 63V
2140	4822 122 31772	47pF 2% 63V
2141	4822 124 40248	10µF 20% 63V
2142	4822 122 32139	12pF 2% 63V
2145	4822 124 41576	2,2µF 20% 50V
2146	4822 122 32142	270pF 2% 63V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100µF 20% 16V
2152	4822 122 31825	27pF 2% 63V
2155	4822 122 32504	15pF 2% 63V
2156	5322 122 31647	1nF 10% 63V
2157	4822 122 31727	470pF 2% 63V
2158	4822 122 31797	22nF 10% 63V
2159	4822 122 32142	270pF 2% 63V
2160	4822 122 31765	100pF 2% 63V
2161	4822 122 32891	68nF 10% 63V
2162	4822 122 32504	15pF 2% 63V
2163▲	4822 122 32442	10nF 50V
2164▲	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2166	4822 122 33496	100nF 10% 63V
2167	5322 122 31842	330pF 2% 63V
2168▲	4822 122 32442	10nF 50V
2169	4822 122 33496	100nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2175	4822 124 41576	2,2µF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470µF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31825	27pF 2% 63V
2181	4822 122 31825	27pF 2% 63V
2182	4822 122 31825	27pF 2% 63V
2183	4822 122 31772	47pF 2% 63V
2200	4822 122 31772	47pF 2% 63V
2201	4822 122 31765	100pF 2% 63V
2202	4822 122 31772	47pF 2% 63V
2210	4822 124 40248	10µF 20% 63V
2211	4822 122 33496	100nF 10% 63V

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3001	4822 051 10151	150Ω 2% 0,25W
3002	4822 051 10101	100Ω 2% 0,25W
3003	4822 051 10109	10Ω 2% 0,25W
3004	4822 051 51201	120Ω 1% 0,125W
3005	4822 051 51201	120Ω 1% 0,125W
3009	4822 051 10181	180Ω 2% 0,25W
3010	4822 051 10681	680Ω 2% 0,25W
3011	4822 051 10821	820Ω 2% 0,25W
3012▲	4822 052 10279	27Ω 5% 0,33W
3013	4822 116 52231	820Ω 5% 0,5W
3014	4822 051 52401	240Ω 1% 0,125W
3015	4822 051 56201	620Ω 1% 0,125W
3016	4822 051 10471	470Ω 2% 0,25W
3017	4822 051 51501	150Ω 1% 0,125W
3018	4822 051 59101	910Ω 1% 0,125W
3019	4822 051 10471	470Ω 2% 0,25W
3023	4822 051 10271	270Ω 2% 0,25W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 10162	1k6 2% 0,25W
3026▲	4822 051 10242	2k4 2% 0,25W
3028	4822 051 10209	20Ω 2% 0,25W
3045	4822 051 10479	47Ω 2% 0,25W
3046	4822 051 10221	220Ω 2% 0,25W
3047	4822 051 10339	33Ω 2% 0,25W
3048	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10339	33Ω 2% 0,25W
3050	4822 051 10102	1k 2% 0,25W
3051	4822 051 10339	33Ω 2% 0,25W
3052	4822 051 52201	220Ω 1% 0,125W
3055	4822 051 10759	75Ω 2% 0,25W
3056	4822 051 53301	330Ω 1% 0,125W
3057	4822 051 53601	360Ω 1% 0,125W
3060	4822 051 10512	5k1 2% 0,25W
3062▲	4822 052 10279	27Ω 5% 0,33W
3070	4822 051 10101	100Ω 2% 0,25W
3071	4822 051 10182	1k8 2% 0,25W
3072	4822 051 10182	1k8 2% 0,25W
3075	4822 051 10102	1k 2% 0,25W
3076▲	4822 051 10472	4k7 2% 0,25W
3077▲	4822 051 10472	4k7 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10221	220Ω 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 116 52195	47Ω 5% 0,5W
3084	4822 051 10272	2k7 2% 0,25W
3085	4822 051 10101	100Ω 2% 0,25W
3086	4822 051 10101	100Ω 2% 0,25W
3087	4822 051 10229	22Ω 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3090▲	4822 051 10103	10k 2% 0,25W
3091	4822 051 10109	10Ω 2% 0,25W
3092	4822 051 10622	6k2 2% 0,25W
3093	4822 051 10511	510Ω 2% 0,25W
3094▲	4822 051 10472	4k7 2% 0,25W
3095	4822 051 10562	5k6 2% 0,25W
3096	4822 051 20222	2k2 5% 0,1W
3097	4822 051 10102	1k 2% 0,25W
3098	4822 051 10102	1k 2% 0,25W
3099	4822 117 10823	2k7 1% 0,125W
3100▲	4822 052 10229	22Ω 5% 0,33W
3101▲	4822 051 10103	10k 2% 0,25W
3102▲	4822 051 10103	10k 2% 0,25W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 10104	100k 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10683	68k 2% 0,25W
3107	4822 051 10272	2k7 2% 0,25W
3110	4822 051 10162	1k6 2% 0,25W
3111	4822 051 10272	2k7 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3114	4822 051 10122	1k2 2% 0,25W
3115	4822 051 10105	1M 5% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10229	22Ω 2% 0,25W
3118	4822 051 10303	30k 2% 0,25W
3119	4822 100 20166	10k 30% lin
3120▲	4822 051 10103	10k 2% 0,25W
3121	4822 051 10332	3k3 2% 0,25W
3122	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10101	100Ω 2% 0,25W
3124	4822 051 10272	2k7 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10123	12k 2% 0,25W
3128	4822 051 10153	15k 2% 0,25W
3130	4822 051 56203	62k 1% 0,125W
3131	4822 100 11213	22k 30% lin
3132	4822 051 10102	1k 2% 0,25W
3134	4822 051 10152	1k5 2% 0,25W
3136	4822 051 10153	15k 2% 0,25W
3137▲	4822 051 10103	10k 2% 0,25W
3137	4822 051 10272	2k7 2% 0,25W
3139▲	4822 051 10103	10k 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3143	4822 051 10683	68k 2% 0,25W
3144	4822 051 20222	2k2 5% 0,1W
3145	4822 051 10221	220Ω 2% 0,25W
3146	4822 051 10681	680Ω 2% 0,25W
3147	4822 051 10221	220Ω 2% 0,25W
3148▲	4822 051 10103	10k 2% 0,25W
3149	4822 051 10272	2k7 2% 0,25W
3150▲	4822 116 81193	15Ω 5% 0,3W
3151	4822 051 10101	100Ω 2% 0,25W
3152	4822 051 10181	180Ω 2% 0,25W
3154▲	4822 116 52256	2k2 5% 0,5W
3155	4822 051 20222	2k2 5% 0,1W
3156	4822 051 10473	47k 2% 0,25W
3157	4822 051 10473	47k 2% 0,25W
3158	4822 051 10101	100Ω 2% 0,25W
3159	4822 051 10569	56Ω 2% 0,25W
3160	4822 116 52291	56k 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3165▲	4822 052 10279	27Ω 5% 0,33W
3168	4822 051 10513	51k 2% 0,25W
3178	4822 051 10132	1k3 2% 0,25W
3180	4822 051 10561	560Ω 2% 0,25W
3181	4822 051 10561	560Ω 2% 0,25W
3182	4822 051 10561	560Ω 2% 0,25W
3183	4822 051 10759	75Ω 2% 0,25W
3201	4822 051 10101	100Ω 2% 0,25W
3220	4822 116 52244	15k 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5001	4822 157 53001	27µH 10%
5002	4822 157 53001	27µH 10%
5004	4822 157 53066	15µH 10%
5007	4822 157 53066	15µH 10%
5011	4822 152 20677	10µH 10%
5012	4822 152 20677	10µH 10%
5025	4822 157 60147	2,2µH
5026	4822 157 60147	2,2µH
5034	4822 157 60147	2,2µH
5035	4822 157 60147	2,2µH
5036	4822 157 60147	2,2µH
5040	4822 157 60147	2,2µH
5041	4822 157 60147	2,2µH
5042	4822 157 60147	2,2µH
5047	4822 157 62552	2,2µH
5049	4822 157 60122	1,5µH 20%
5052	4822 157 60122	1,5µH 20%
5054	4822 157 60122	1,5µH 20%
5063	4822 157 60147	2,2µH
5066	4822 157 60147	2,2µH
5079	4822 152 20677	10µH 10%
5083	4822 157 60147	2,2µH
5146	4822 157 53001	27µH 10%
5152	4822 157 52224	15µH 10%
5169	4822 157 60147	2,2µH
5170	4822 157 60147	2,2µH
5177	4822 157 60147	2,2µH

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6001	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6006	4822 130 82334	BAS85
6023	4822 130 82334	BAS85
6025	4822 130 80446	LL4148
6026	4822 130 83459	BZV55-A5V1
6080	4822 130 80882	BZV55-C3V9
6122	4822 130 80884	LLZ-C5V1
6127	4822 130 80446	LL4148

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7010	4822 130 42131	BF550
7011	4822 130 42513	BC858C
7016▲	5322 130 41982	BC848B
7019▲	5322 130 41982	BC848B
7020	4822 130 42513	BC858C
7021▲	5322 130 41982	BC848B
7022	5322 130 42136	BC848C
7023	4822 130 40938	BC548
7025	5322 130 42136	BC848C
7030	5322 130 44743	BSR12
7032▲	5322 130 41982	BC848B
7034▲	5322 130 41982	BC848B
7035	5322 130 41983	BC858B
7036	5322 130 41983	BC858B
7037▲	5322 130 41982	BC848B
7077▲	5322 130 41982	BC848B
7080▲	5322 130 41982	BC848B
7122▲	5322 130 41982	BC848B
7125	5322 130 44743	BSR12
7127	5322 130 41983	BC858B
7142	5322 130 41983	BC858B
7143▲	5322 130 41982	BC848B
7148▲	5322 130 41982	BC848B
7200	4822 209 30402	TDA2579B/N2/S1
7201	4822 209 33044	PC74HC4538T/S24 5
7202	4822 209 33044	PC74HC4538T/S24 5
7203▲	4822 209 83163	LM833N
7231	4822 209 31056	SDA9205-2
7240	4822 209 52418	TMS4C1070B-30N
7241	4822 209 52418	TMS4C1070B-30N
7242	4822 209 52418	TMS4C1070B-30N

7245	4822 209 32581	SAA4970T/V1
7250	4822 209 63645	SAA5231/V7
7260	4822 209 72042	MC78L05ACP
7262	5322 209 31799	PC74HC4538T
7265	4822 209 72042	MC78L05ACP
7266	4822 209 63644	SDA9086-3
7269	5322 209 61004	N74F74D
7271	4822 209 52359	HYB514256B-70
7275	4822 209 31851	SAA9042P/A/MOB
7283	4822 209 52422	Eprom + software

PIP panel [J]

	4822 265 31085	5P female
	4822 265 41328	10P female
	4822 265 20509	2P male grey
	4822 265 20511	2P male blue
	4822 265 30828	5P nale brown
	4822 267 41145	5P male
	4822 265 30899	5P male black

Various

1023	4822 212 30839	PIP multi 33"
1023	4822 212 30841	PIP multi 25-28"
1023	4822 212 31315	PIP multi FL2.24-32" -/58
1023	4822 212 31316	PIP multi FL2.24-32"
1023	4822 212 31317	PIP multi FL2.24-28"
1155	4822 320 40284	Delay line DL711G
1201	4822 242 70304	Crystal 8,867 238 MHz
1212	4822 242 70736	Crystal 7,159 090 MHz
1600	4822 210 10392	UV916E
1600	4822 210 50124	UV916E/IEC
1610	4822 242 80295	Crystal OFWG3962M

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2103	4822 126 10324	33pF 2% 63V
2105	4822 122 31766	120pF 2% 63V
2118	4822 122 31775	680pF 2% 63V
2119	4822 122 31767	150pF 2% 63V
2120	4822 122 31807	1200pF 2% 63V
2125	4822 126 11544	22nF 63V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V
2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 2% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 2% 63V
2180	4822 122 31768	180pF 2% 63V
2181	4822 122 31768	180pF 2% 63V
2185	4822 126 11544	22nF 63V
2187	4822 126 11544	22nF 63V
2189	4822 122 31746	1nF 2% 63V
2196	4822 122 32183	56nF 10% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1nF 2% 63V
2202	4822 125 50045	1p8-22p trim.
2211	4822 122 31746	1nF 2% 63V
2212	4822 125 50045	1p8-22p trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 2% 63V
2230	4822 124 40753	6,8µF 20% 63V
2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 40753	6,8µF 20% 63V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V
2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2340▲	4822 124 40433	47µF 20% 25V
2345▲	4822 124 40433	47µF 20% 25V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF 20% 50V
2381	4822 122 32927	220nF 20% 50V
2382	4822 122 32927	220nF 20% 50V
2383	4822 122 32927	220nF 20% 50V
2384	4822 122 32927	220nF 20% 50V
2385	4822 122 32927	220nF 20% 50V
2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1nF 2% 63V
2399	4822 122 31961	68pF 2% 63V
2404	4822 122 31965	220pF 2% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 2% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31769	18pF 2% 63V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2447	5322 121 42386	100nF 5% 63V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 122 31981	33nF 5% 50V
2452	4822 122 31765	100pF 2% 63V
2453	4822 122 31765	100pF 2% 63V
2455	4822 122 31972	39pF 2% 63V
2456	4822 122 31765	100pF 2% 63V
2459	4822 124 41997	470µF 10V
2466	4822 122 31947	100nF 20% 63V
2470▲	4822 124 40196	220µF 20% 16V
2604	4822 124 40195	150µF 20% 16V
2614▲	4822 124 40433	47µF 20% 25V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 32927	220nF 20% 50V
2618▲	4822 122 32442	10nF 50V
2619	4822 124 40849	330µF 20% 16V
2620▲	4822 122 32442	10nF 50V
2621	4822 122 31797	22nF 10% 63V
2622	4822 122 31947	100nF 20% 63V
2623	4822 122 31797	22nF 10% 63V
2627	4822 122 32927	220nF 20% 50V

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3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107▲	4822 051 10103	10k 2% 0,25W
3108▲	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% lin
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 051 10103	10k 2% 0,25W
3211▲	4822 051 10103	10k 2% 0,25W
3212▲	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228▲	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% lin
3241	4822 051 10302	3k 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270▲	4822 051 10103	10k 2% 0,25W
3275▲	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330▲	4822 051 10103	10k 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341▲	4822 111 41424	22Ω 5% 0,3W
3345▲	4822 111 41424	22Ω 5% 0,3W
3353▲	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464▲	4822 051 10472	4k7 2% 0,25W
3467▲	4822 116 52256	2k2 5% 0,5W
3471▲	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3600▲	4822 051 10103	10k 2% 0,25W
3601▲	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604▲	4822 052 10158	1Ω5 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% lin
3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613▲	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3617	4822 051 10751	750Ω 2% 0,25W
3618▲	4822 052 10568	5Ω6 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k2 5% 0,1W
3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k7 2% 0,25W
3624	4822 051 10272	2k7 2% 0,25W
3625	4822 051 10511	510Ω 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3635	4822 051 10562	5k6 2% 0,25W
3636	4822 051 10911	910Ω 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W
3997	4822 051 10101	100Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10479	47Ω 2% 0,25W
3997	4822 051 10829	82Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5118	4822 157 60435	10,3µH 4,86MHz trim
5155	4822 157 60433	7,2µH 4,4MHz trim
5157	4822 157 60434	9,4µH 4,4MHz trim
5170	4822 157 60432	10,3µH 4,4MHz trim
5175	4822 157 60432	10,3µH 4,4MHz trim
5190	4822 157 60432	10,3µH 4,4MHz trim
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

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6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148

⊗ ▭

7103▲	5322 130 41982	BC848B
7105▲	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7200▲	5322 130 41982	BC848B
7210▲	5322 130 41982	BC848B
7233▲	5322 130 41982	BC848B
7234▲	5322 130 41982	BC848B
7235▲	5322 130 41982	BC848B
7330	4822 209 73852	PMBT2369
7335▲	5322 130 41982	BC848B
7337▲	5322 130 41982	BC848B
7338▲	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 62474	SDA9088-2WS
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7610	4822 209 32692	TDA8349A/N4
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 63423	TDA2579B/N2

NICAM sound module [K]

	4822 265 41087	Strip 9P

Various

1600	4822 212 23907	ECO-NICAM PAL BG
1600	4822 212 23908	ECO-NICAM PAL I
1001	4822 242 81527	Crystal 17,472MHz
1002	4822 242 72301	Filter TH316BOM-20800 DAF
1002	4822 242 72303	Filter TH316BQM
1003	4822 242 81187	Crystal 11,700MHz
1003	4822 242 81188	Crystal 13,104MHz
1106	4822 242 72303	Filter TH316BQM

⊣⊢

2000	4822 122 31947	100nF 20% 63V
2001▲	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31768	180pF 2% 63V
2006	5322 122 31842	330pF 2% 63V
2007	4822 122 32597	6,8nF 10% 63V
2008	4822 122 31767	150pF 2% 63V
2009▲	4822 122 32442	10nF 50V
2010	4822 122 31767	150pF 2% 63V
2011	4822 122 31766	120pF 2% 63V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1nF 2% 63V
2014▲	4822 122 32442	10nF 50V
2015	4822 125 50045	1p8-22p trim.
2016	4822 122 31961	68pF 2% 63V
2017	4822 121 42408	220nF 5% 63V
2018▲	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V
2020▲	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15nF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF 5% 50V
2022	4822 122 31759	18nF
2023	4822 122 31981	33nF 5% 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15nF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V
2026▲	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 2% 63V
2028	4822 126 10171	2700pF 2% 63V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V
2031	4822 126 10171	2700pF 2% 63V
2032	4822 122 31773	560pF 2% 63V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1nF 2% 63V
2036▲	4822 122 32442	10nF 50V
2037▲	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V

Spare parts list / Stükliste / Liste des pièces

2039	4822 126 11691	150nF 10% 63V
2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pF 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V

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3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W
3007	4822 051 10223	22k 2% 0,25W
3008	4822 051 10223	22k 2% 0,25W
3009	4822 051 10392	3k9 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014▲	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W
3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W
3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020▲	4822 051 10472	4k7 2% 0,25W
3021▲	4822 051 10472	4k7 2% 0,25W
3022▲	4822 051 10472	4k7 2% 0,25W
3023▲	4822 051 10472	4k7 2% 0,25W
3024	4822 051 10184	180k 2% 0,25W
3025	4822 051 10184	180k 2% 0,25W
3026	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029▲	4822 052 10109	10Ω 5% 0,33W
3030	4822 051 10102	1k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10569	56Ω 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 10431	430Ω 2% 0,25W
3035	4822 051 10241	240Ω 2% 0,25W
3036	4822 051 10102	1k 2% 0,25W
3037	4822 051 10159	15Ω 2% 0,25W
3049	4822 051 10223	22k 2% 0,25W
3050	4822 051 10123	12k 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 051 51201	120Ω 1% 0,125W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 70458	4,7µH 10%
5003	4822 157 70458	4,7µH 10%

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6000▲	4822 130 30621	1N4148
6005	4822 209 30911	OF4076
6006	5322 130 31684	BB809
6050	4822 130 80446	LL4148

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7000	4822 209 30909	TDA8732/C1
7001▲	4822 209 30914	SAA7280/M3
7002▲	4822 209 83163	LM833N
7003▲	4822 209 83163	LM833N
7004	5322 209 10576	4053B
7007	4822 209 73236	TDA1543/N2
7008	5322 130 42755	BC847C
7009	4822 130 60887	BF840
7050	5322 130 42136	BC848C

Combfilter panel [N]

	4822 265 41337	Strip 11P

Various

1300	4822 212 30906	Comb filter panel

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2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 124 40248	10µF 20% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 124 40248	10µF 20% 63V
2005	4822 124 40242	1µF 20% 63V
2006	4822 122 33496	100nF 10% 63V
2010▲	4822 122 32442	10nF 50V
2021▲	4822 122 32442	10nF 50V
2022▲	4822 122 32442	10nF 50V
2023	4822 122 31766	120pF 2% 63V
2024▲	4822 122 32442	10nF 50V
2025▲	4822 124 40246	4,7µF 20% 63V
2026	4822 122 33496	100nF 10% 63V
2030	4822 124 40177	47µF 20% 10V
2031	4822 122 33496	100nF 10% 63V
2032	4822 124 40177	47µF 20% 10V
2033	4822 122 33496	100nF 10% 63V
2034	4822 124 40177	47µF 20% 10V
2035	4822 122 33496	100nF 10% 63V
2036▲	4822 124 40433	47µF 20% 25V
2037	4822 122 33496	100nF 10% 63V
2038	5322 122 31647	1nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2044	4822 122 33496	100nF 10% 63V
2045	4822 122 33496	100nF 10% 63V
2050	4822 124 80283	100µF 6,3V
2051	4822 126 11725	1µF 205 5V
2060	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2080	4822 122 31797	22nF 10% 63V
2081	4822 124 80283	100µF 6,3V
2082	4822 122 33496	100nF 10% 63V
2083	4822 122 33496	100nF 10% 63V

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3000▲	4822 051 10103	10k 2% 0,25W
3001	4822 051 10124	120k 2% 0,25W
3011	4822 051 10471	470Ω 2% 0,25W
3012	4822 051 10102	1k 2% 0,25W
3013	4822 051 10182	1k8 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3021	4822 051 10122	1k2 2% 0,25W
3022	4822 051 10331	330Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3024	4822 051 10331	330Ω 2% 0,25W
3025	4822 051 10473	47k 2% 0,25W
3026	4822 051 10479	47Ω 2% 0,25W
3027	4822 051 10471	470Ω 2% 0,25W
3028	4822 051 10479	47Ω 2% 0,25W
3029	4822 051 10102	1k 2% 0,25W
3030	4822 051 10473	47k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10181	180Ω 2% 0,25W
3035▲	4822 052 10108	1Ω 5% 0,33W
3036▲	4822 052 10108	1Ω 5% 0,33W
3037▲	4822 052 10108	1Ω 5% 0,33W
3038▲	4822 052 10108	1Ω 5% 0,33W
3040	4822 051 10333	33k 2% 0,25W
3041	4822 051 10822	8k2 2% 0,25W
3042	4822 051 10331	330Ω 2% 0,25W
3043	4822 051 10102	1k 2% 0,25W
3044	4822 051 10471	470Ω 2% 0,25W
3045	4822 051 10008	0Ω 5% 0,25W
3047	4822 051 10102	1k 2% 0,25W
3048	4822 051 10101	100Ω 2% 0,25W
3050	4822 051 10333	33k 2% 0,25W
3051	4822 051 10822	8k2 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10911	910Ω 2% 0,25W
3054	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10008	0Ω 5% 0,25W
3057	4822 051 10102	1k 2% 0,25W
3058	4822 051 10101	100Ω 2% 0,25W
3060	4822 051 10562	5k6 2% 0,25W
3061	4822 051 10331	330Ω 2% 0,25W
3062	4822 051 10821	820Ω 2% 0,25W
3078	4822 051 10151	150Ω 2% 0,25W
3079	4822 051 10821	820Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 10102	1k 2% 0,25W
3083	4822 051 10473	47k 2% 0,25W
3084	4822 051 10393	39k 2% 0,25W
3085	4822 051 10471	470Ω 2% 0,25W
3086	4822 051 10152	1k5 2% 0,25W
3087	4822 051 10182	1k8 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3089	4822 051 10151	150Ω 2% 0,25W
3090	4822 051 10471	470Ω 2% 0,25W
3091	4822 051 10102	1k 2% 0,25W
3092	4822 051 10223	22k 2% 0,25W
3093	4822 051 20222	2k2 5% 0,1W
3094	4822 051 10333	33k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5021▲	4822 157 51462	10µH 10%
5022	4822 157 63065	0,68µH 20%
5030	4822 157 51312	68µH 10%
5031	4822 157 51312	68µH 10%
5032	4822 157 51312	68µH 10%
5033	4822 157 51312	68µH 10%
5080	4822 154 10057	7,2MHz LOW-PASS

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6050▲	4822 130 30621	1N4148
6051	4822 130 31253	BZX79-C2V4

⊗ ▭

7000	4822 212 30906	MC141625A
7005	5322 209 10576	4053B
7010	5322 130 42136	BC848C
7021▲	5322 130 41982	BC848B
7022▲	5322 130 41982	BC848B
7023	5322 130 41983	BC858B
7024	5322 130 41983	BC858B
7040	5322 130 42136	BC848C
7041	4822 130 42513	BC858C
7042	5322 130 42136	BC848C
7050	5322 130 42136	BC848C
7051	4822 130 42513	BC858C
7052	5322 130 42136	BC848C
7062	5322 130 42136	BC848C
7080	5322 130 42136	BC848C
7081▲	5322 130 41982	BC848B
7082	5322 130 41983	BC858B
7083	4822 130 42513	BC858C
7090	5322 130 41983	BC858B
7091▲	5322 130 41982	BC848B
7092▲	5322 130 41982	BC848B

Black-stretch panel [D’]

	4822 265 41376	Strip 13P

Various

1200	4822 212 31276	Black-stretch panel

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2514	4822 124 40195	150µF 20% 16V
2515	4822 124 40272	33µF 20% 16V
2516	4822 124 40849	330µF 20% 16V
2517	4822 124 40242	1µF 20% 63V
2518	4822 126 11544	22nF 63V
2519	4822 121 42408	220nF 5% 63V
2521	4822 124 40248	10µF 20% 63V
2524	4822 126 11544	22nF 63V

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3511	4822 051 10102	1k 2% 0,25W
3512▲	4822 052 10688	6Ω8 5% 0,33W
3513	4822 051 10511	510Ω 2% 0,25W
3514	4822 051 10152	1k5 2% 0,25W
3515	4822 051 10202	2k 2% 0,25W
3516	4822 051 10102	1k 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3518	4822 051 10202	2k 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10394	390k 2% 0,25W
3524	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10122	1k2 2% 0,25W
3532	4822 051 10911	910Ω 2% 0,25W
3533	4822 051 10681	680Ω 2% 0,25W
3550	4822 051 10101	100Ω 2% 0,25W
3552	4822 051 10008	0Ω 5% 0,25W

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6500	4822 130 81513	LLZ-C6V8
6501	4822 130 81223	LLZ-C2V4

⊗ ▭

7518	4822 209 30711	CX20125
7519▲	4822 130 41344	BC337-40
7520▲	5322 130 41982	BC848B
7521	5322 130 41983	BC858B
7522▲	5322 130 41982	BC848B
7524	4822 209 63901	TDA4568/V2

Y/C detector [I]

	4822 265 40503	5P female gold plated
	4822 265 30431	3P female gold plated

Various

1021	4822 212 23929	Y/C detector panel
1231	4822 242 80364	Filter 4,43 MHz

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2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF 20% 50V
2228	4822 122 32927	220nF 20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2238	4822 122 31768	180pF 2% 63V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 2% 63V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 2% 63V
2269	4822 124 20726	4,7µF 10% 63V

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3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204▲	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221▲	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225▲	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W
3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W
3278▲	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282▲	4822 051 10103	10k 2% 0,25W
3283▲	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309	4822 051 10008	0Ω 5% 0,25W
3319	4822 051 10102	1k 2% 0,25W
3991	4822 051 10399	39Ω 2% 0,25W

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5200	4822 157 62824	7,5µH
5201	4822 157 62824	7,5µH
5202	4822 157 60122	4,7µH 10%

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6258	4822 130 80905	LLZ-F5V1

⊗ ▭

7226	5322 130 41983	BC858B
7228▲	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263▲	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277▲	5322 130 41982	BC848B
7278▲	5322 130 41982	BC848B